

SAMSUNG

REFRIGERATOR

MODEL NAME : RF267AE**
RF26XAE**

MODEL CODE : RF267AERS/XAA
RF267AEPN/XAA
RF267AEBP/XAA
RF267AEWP/XAA
RF26XAERS/XAA
RF26XAEPN/XAA

SERVICE GUIDE

REFRIGERATOR



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For the latest parts information, Please access to our service web site
(• North America : <http://service.samsungportal.com>)



WARNING

IMPORTANT SAFETY NOTICE

The service guide is for service men with adequate backgrounds of electrical, electronic, and technician experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or dealer cannot be responsible for the interpretation of this information.

SAMSUNG ELECTRONICS AMERICA, INC.

Technical Service Guide

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1. PRECAUTIONS(SAFETY WARNINGS)

- Before servicing the refrigerator or replacing parts, unplug the unit from the wall outlet.
→ Shock Hazard, observe basic safety rules.
- Be sure to use the specified generic parts when servicing the product.
→ Confirm the Model Number on Product itself.
Inspect the new part and assembly for Voltage, Current and temperature specifications.
- During the Diagnostic and Troubleshooting phase it is recommended to do a visual inspection of all the connections of the wiring harness to the PCB ASSY.
- Check the traces of water infiltration at the electric parts.
→ If there is a trace of water infiltration it is necessary for you to replace the insulation tape or harness.
- Check the assemble status of parts after troubleshooting.
→ It should be done indiscriminately as before the repair.
- Check the use circumstance of refrigerator.
→ If the refrigerator is installed at the place that is damp or wet, or status of installation is unstable, change the installation place.
- Do earth in case of need.
→ Particularly, Be sure to earth when there is a risk of an electric leakage by humidity or wetness.
- Do not use multi plugs in a plug socket at the same time.
Check if the power cord and socket is damaged, pressed, squeezed, or fired.
→ If the plug or plug socket is damaged, repair or exchange that immediately.
- Do not allow consumers to repair the appliance by themselves.
- Do not store other materials except the foods.
→ Drugs or scientific materials : difficult to keep precise temperature.
→ The inflammables(alcohol, benzene, ether, LP gas, butane gas etc.): have risk of explosion.

PRECAUTIONS(SAFETY WARNINGS)

Read all instructions before repairing the product and follow the instructions in order to prevent danger or property damage.

CAUTION/WARNING SYMBOLS DISPLAYED



Warning

Indicates that a danger of death or serious injury exists.



Caution

Indicates that a risk of personal injury or material damage exists.

SYMBOLS



means "Prohibited".



means "Do not disassemble".



means "No contact".



means "Warning or Caution".



means "Unplug the unit before performing service"



means "Earth or Ground".



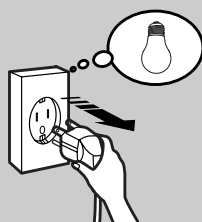
Warning & Caution

Pull the power plug out to exchange the interior lamp of the refrigerator.

- It may cause electric shock.



Unplug



Use the rated components on the replacement.

- Check the correct model, rated voltage, rated current, operating temperature and so on.

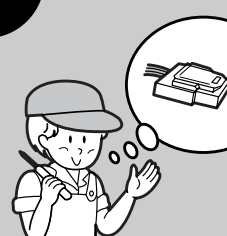


Rated components



On repair, make sure that the wires such as harness are bundled tightly.

- Bundle tightly wires in order not to be detached by the external force and then not to be wetted.



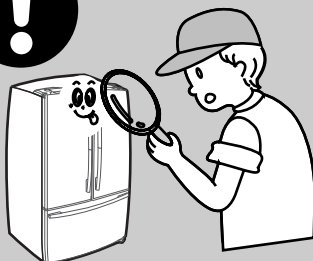
On repair, remove completely dust or other things of housing parts, harness parts, and check parts.

- Cleaning may prevent the possible fire by tracking or short.



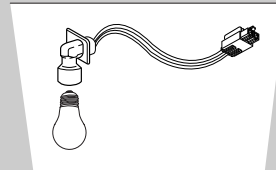
After repair, check the assembled state of components.

- It must be in the same assembled state when compared with the state before disassembly.



Check if there is any trace indicating the permeation of water.

- If there is that kind of trace, change the related components or do the necessary treatment such as taping using the insulating tape.



PRECAUTIONS(SAFETY WARNINGS)

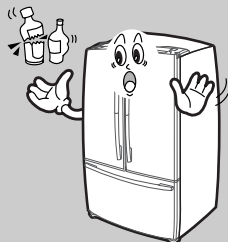
* Please let users know following warnings & cautions in detail.



Warning & Caution

Do not allow users to put bottles or kinds of glass in the freezer.

●Freezing of the contents may inflict a wound.



Do not allow users to store narrow and lengthy bottles or foods in a small multi-purpose room.

●It may hurt you when refrigerator door is opened and closed resulting in falling stuff down.



Do not allow users to store pharmaceutical products, scientific materials, etc., in the refrigerator.

●The products which temperature control should not be stored in the refrigerator.

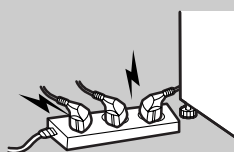


Do not allow users to insert the power plugs for many products at the same time.

●May cause abnormal generation of heat or fire.



Prohibition

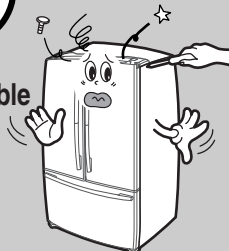


Do not allow users to disassemble, repair or alter.

●It may cause fire or abnormal operation which leads to injury.



Do not disassemble



Do not allow users to bend the power cord with excessive force or do not have the power cord pressed by heavy article.

●May cause fire.

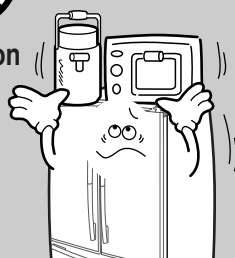


Do not allow users to store articles on the product.

●Opening or closing the door may cause things to fall down, which may cause injury.

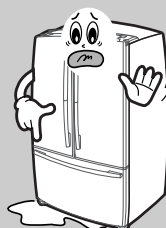


Prohibition



Do not allow users to install the refrigerator in the wet place or the place where water splashes.

●Deterioration of insulation of electric parts may cause electric shock or fire.

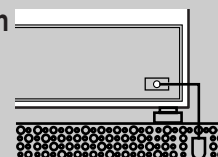


Make sure of the earth.

●Be sure the product is properly grounded.



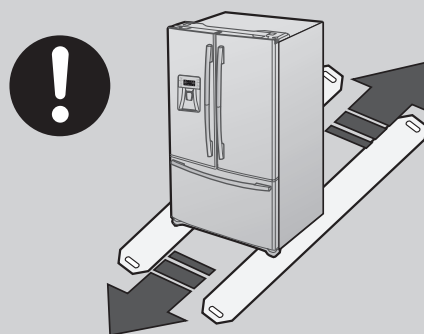
Earth



PRECAUTIONS(SAFETY WARNINGS)

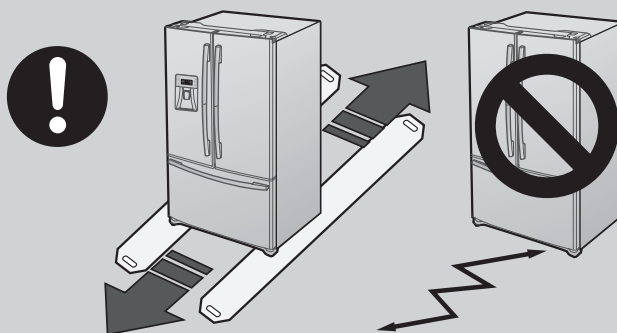
FLOORING

For proper installation, this refrigerator must be placed on a level surface of hard material that is the same height as the rest of the flooring. This surface should be strong enough to support a fully loaded refrigerator, or approximately 660lbs(299kg).



MOVING

Protect the finish of the flooring. Cut a large section of the cardboard carton and place under the refrigerator where you are working. When moving, be sure to pull the unit straight out and push back in straight.










2. PRODUCT SPECIFICATIONS

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2. PRODUCT SPECIFICATIONS

2-1) Introduction of main function

- A newly Developed SAMSUNG bottom mount freezer in 2009 has the following characteristics.

	<p>Surround Multi Flow</p> <ul style="list-style-type: none"> ● Uniform cooling for each shelf and even in corner in fresh food compartment by centerpositioned fan and duct with multiple flow effluences
	<p>Twin Cooling System</p> <ul style="list-style-type: none"> ● The refrigerator and the freezer have two evaporators. Given this independent system, the freezer and the refrigerator are cooled individually as required and are, therefore, more efficient. Food odor from the refrigerator does not affect food in the freezer due to separate air flow circulation.
	<p>Electronic control from outside of Pantry Cover</p> <ul style="list-style-type: none"> ● Adjustable temperature control ((around 41°F(5℃) : Deli / around 38°F(3℃) : Fresh / around 34°F(1℃) Chilled) Temperature control from outside of the Pantry : user friendly design helps keep foods fresh for longer
	<p>16" Pizza Corner</p> <ul style="list-style-type: none"> ● Can be used for 16" pizza if stand flip tilting pocket.
	<p>Ice and Water Dispenser</p> <ul style="list-style-type: none"> ● The ice and water dispenser provides ice and cold water at any time.
	<p>Secure Auto Close Door System</p> <ul style="list-style-type: none"> ● Secure Auto Close Door System ● Cool tight doors ● Energy saving ● Preventing sweat on fridge doors
	<p>Easy Handle System</p> <ul style="list-style-type: none"> ● Ez-open Freezer Door ● Ergonomic Door Design

PRODUCT SPECIFICATIONS

2-2) Specifications

ELECTRICAL SPECIFICATIONS

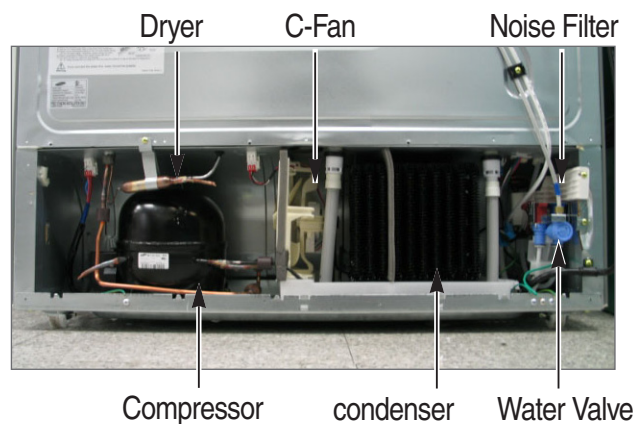
Defrost Control..... From 24 to 32 hrs
 Thermo Bimetal Protector140°F(60℃)(off) 104°F(40℃)(on)
 Defrost Thermistor(502AT) 50°F(10℃)(off)
 Electrical Rating AC115V 60Hz 11.6 Amps
 Maximum Current Leakage 0.25 mA
 Maximum Ground Path Resistance 0.1 Ohm
 Energy Consumption.....540KWh/year

NO LOAD PERFORMANCE

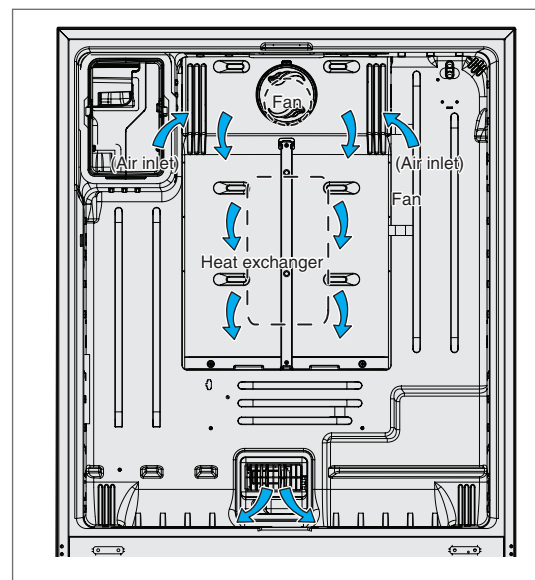
Ambient Temperature 70°F(21℃) 90°F(32℃)
 Refrigerator, °F 34°F(1℃)~46°F(8℃) 34°F(1℃)~46°F(8℃)
 Freezer, °F -14°F(-26℃)~8°F(-13℃) -14°F(-26℃)~8°F(-13℃)
 Run Time,% <40 <60

REFRIGERATION SYSTEM

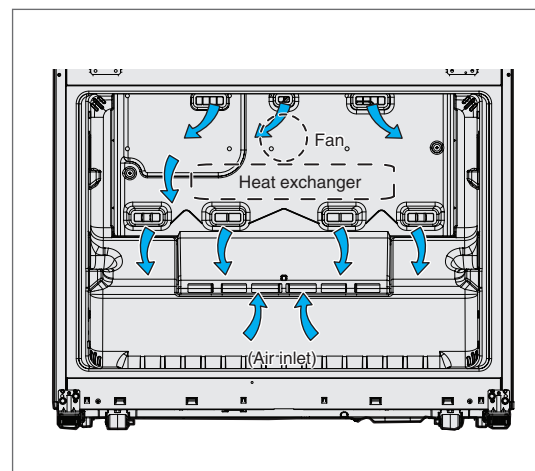
Refrigerant Charge (R134a).....5.64 oz(160g)
 Compressor(BK190CL2C/E02)897 Btu/hr(0.263kw)
 Compressor oil Freol α -10
 Capillary tube(Dia, Length) 0.032 ", 118 " (0.81mm, 2997mm)
 Dryer Molecular Sieve XH-9



Refrigerator



Freezer



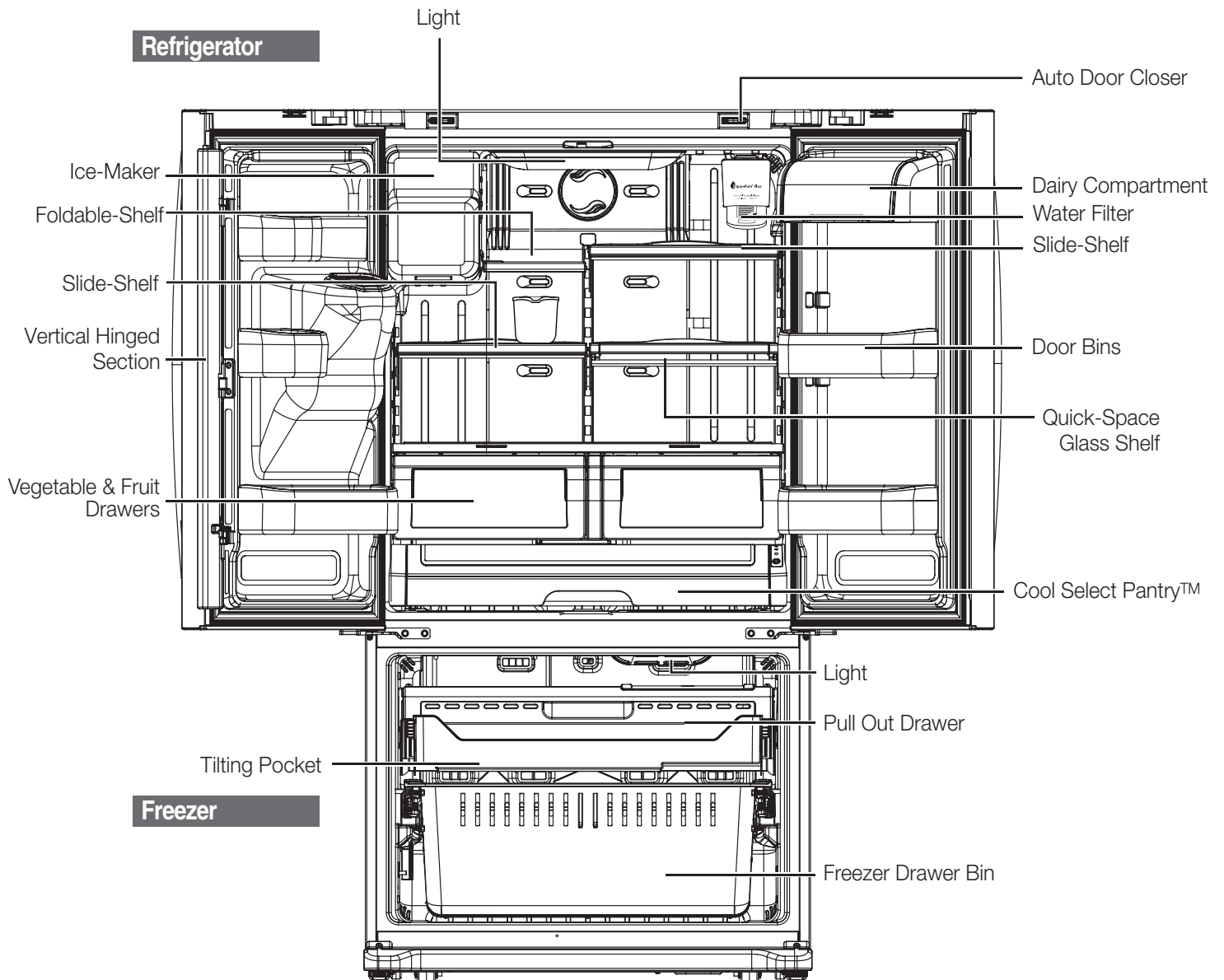
INSTALLATION

Clearance must be provided for air circulation

AT TOP..... 2" (50mm)
 AT SIDES..... 3 3/4" (95mm)
 AT REAR..... 2" (50mm)

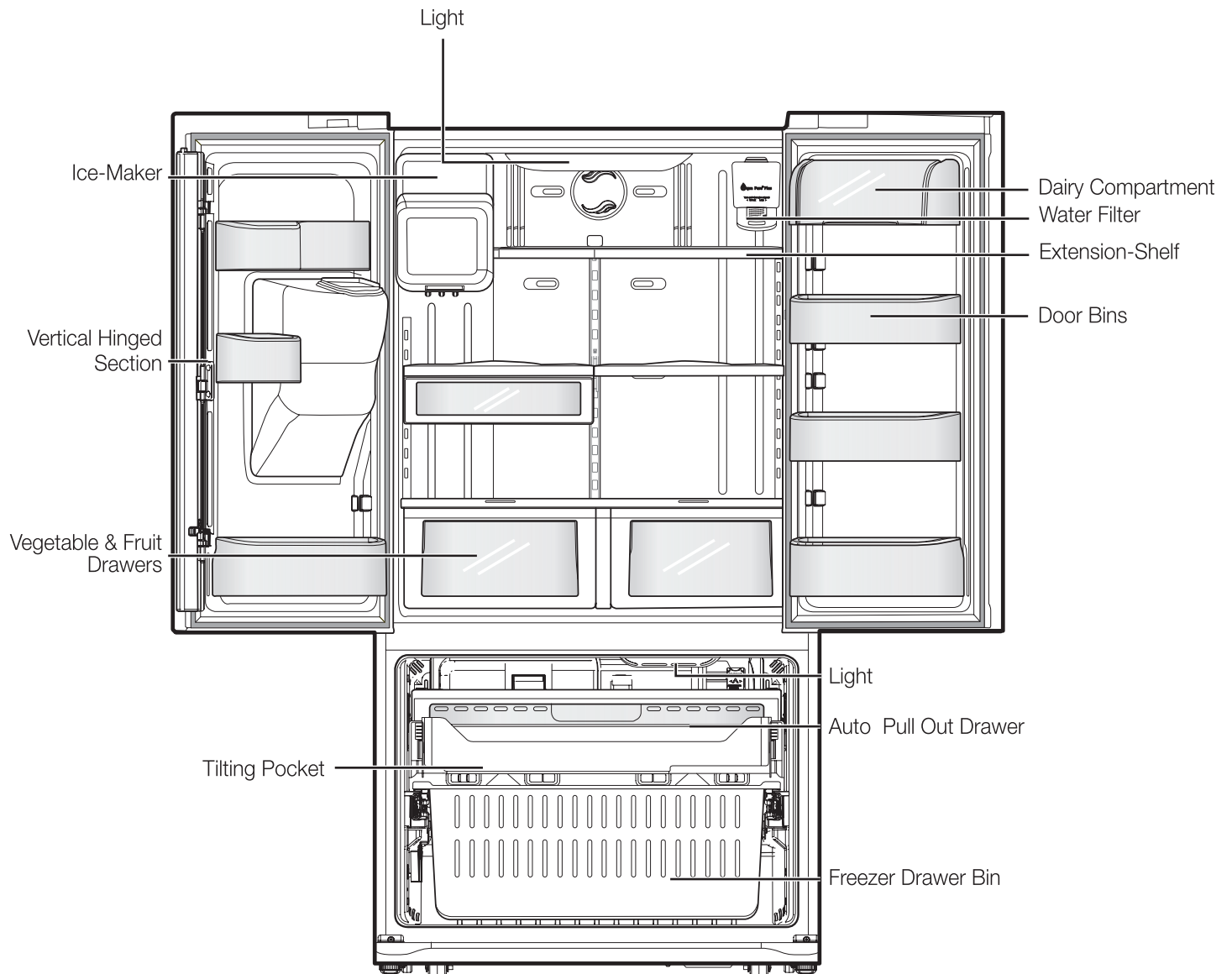
PRODUCT SPECIFICATIONS

2-3) Interior Views (RF267)



PRODUCT SPECIFICATIONS

2-3) Interior Views (RF26X)



PRODUCT SPECIFICATIONS

2-4) Model Specification & Specification Chart

ITEM	Model		RF267 / RF26X
External size	W		35 3/4 inch (908mm)
	D		29 1/8 inch (740mm)
			35 5/8 inch (905mm)
	H	W/O Hinge Cap	68 5/8 inch (1744mm)
		With Hinge Cap	70 Inch (1778mm)
Net Capacity	Total		26 Cu.ft (733.4 l)
	Freezer		8.2 Cu.ft(232.2 l)
	Refrigerator		17.7 Cu.ft(501.2 l)
Efficiency of volume			50.17%
Weight	Set		330 Pounds (150kg)
	Packing		363 Pounds (165kg)
Packing	Width		38 5/8 Inch (980mm)
	Depth		39 13/32 Inch (1001mm)
	Height		75 3/4 Inch (1923mm)
Compressor			reciprocate
Rated Frequency and Frequency			AC 115V/60Hz
Refrigerant			R 134a
Foaming agent			C-Pantane
Refrigerant Input Amount			5.64 oz (160g)
Kind of Refrigerator			Indirect Cooling Method Refrigerator
Motor Rated Consumption Power			155A
Electric Heater Rated Consumption Power			380W

PRODUCT SPECIFICATIONS

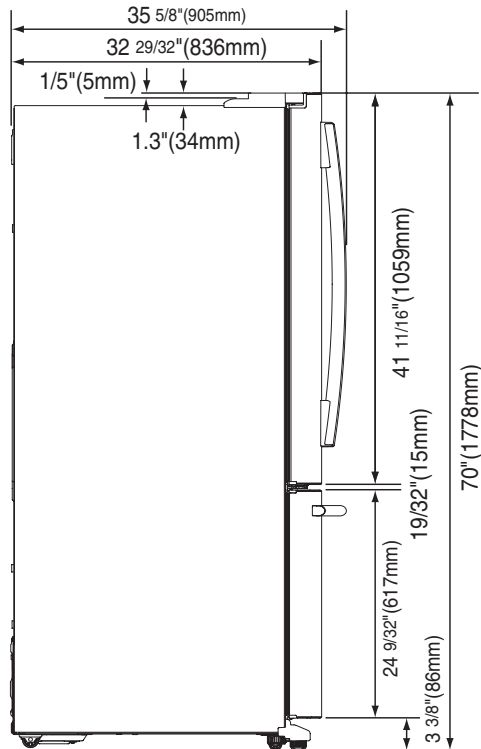
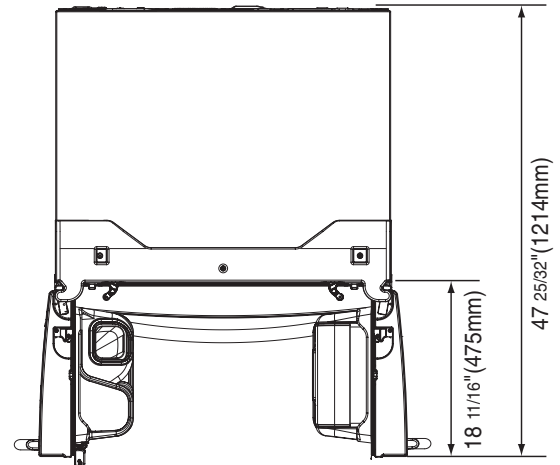
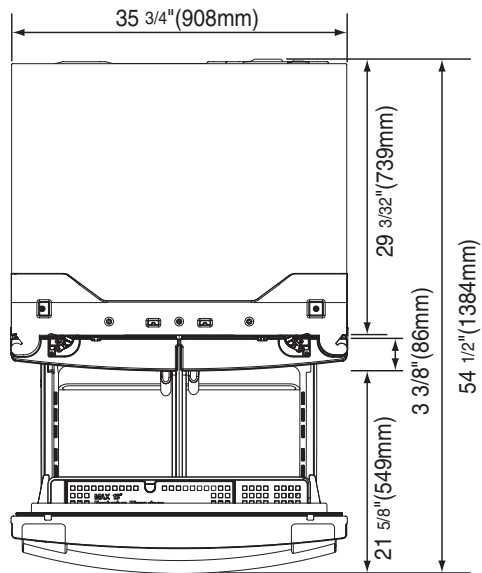
Items			Specification	
Model			RF267 / RF26X	
Components for Freezer	Compressor	Model	BK190CL2C/E02	
		Starting type	R.S.C.R	
		Oil Charge	FREOL α - 10	
	Evaporator	Freezer	SPLIT FIN TYPE	
		Refrigerator	SPLIT FIN TYPE	
	Condenser		Forced and natural convection type	
	Dryer		Molecular sieve XH-9	
	Capillary tube(Dia x Length)		0.032" x 118" (0.81mm x 2997mm)	
	Refrigerant		R134a	
Room Temperature Sensor Components	Freezer	Model	Temperature Selection	ON(°F) OFF(°F)
		THERMISTOR (F-SENSOR) 502AT	-8°F(-22℃)	-2°F(-19℃)
			-2°F(-19℃)	1°F(-17℃)
			8°F(-13℃)	11°F(-12℃)
	Refrigerator	Model	Temperature Selection	ON(°F) OFF(°F)
		THERMISTOR (R-SENSOR) 502AT	34°F(1℃)	36°F(2℃)
			38°F(3℃)	40°F(4℃)
			46°F(8℃)	48°F(9℃)
Defrost Related Components	Defrost Cycle	First Defrost Cycle (Concurrent defrost of F and R)		11hr \pm 10min
		Defrost Cycle(FRE)		11~22hr(vary according to the conditions used)
		Defrost Cycle(REF)		6~11hr(vary according to the conditions used)
		Pause time		12 \pm 1min
	Defrost Sensor	F Defrost-Sensor	Model	THERMISTOR (502AT)
			SPEC	5.0 K Ω at 77°F(25℃)
		R Defrost-Sensor	Model	THERMISTOR (502AT)
			SPEC	5.0 K Ω at 77°F(25℃)
	Bimetal	F Bimetal-thermo Protector	Rated	AC 125V 10A
			Operating temperature	Off : 140°F(60℃) / On : 104°F(40℃)
		R Bimetal-thermo Protector	Rated	AC 125V 10A
			Operating temperature	Off : 140°F(60℃) / On : 104°F(40℃)

PRODUCT SPECIFICATIONS

Items			Specification
Model			RF267 / RF26X
Electric Components	Defrost Heater(FRE)	Conducting af F Defrost	AC 115V, 240W
	Defrost Heater(REF)	Conducting at R Defrost	AC115V, 120W
	DISPENSER Heater	Interlock with French Heater	AC115V, 2W
	FRENCH Heater	-	AC115V, 8W
	ICE Duct Heater	Interlock with Defrost Heater (FRE)	AC115V, 4W
	Water Tank Heater	-	DC 12V, 2W
	Bimetal thermo For Preventing Overheating of Refrigerator Lamp		AC125V 10A / 140°F(60℃) / On : 104°F(40℃)
	Over load Relay	Model	4TM445PHBYY-82
		Temp.ON	257°F± 9°F (125℃±5℃)
		Temp.OFF	156°F± 16°F (69℃±9℃)
	Rated Voltage		AC 115V/ 60Hz
	MOTOR-BLDC(FRE)		DC12V / DREP5020LC
	MOTOR BLDC(ICE ROOM)		DC12V / DREP5020LB
	MOTOR-BLDC(REF)		DC12V / DREP5020LC
	MOTOR-BLDC(CIRCUIT)		DC 12V / DRCP5030LA
	MOTOR-DAMPER(PANTRY)		DC12V / NSBY001TA1
	Lamp(FRE)		AC 120V / 60W(1EA)
	Lamp(REF)		AC 120V / 60W(2EA)
	Door Switch	FRE	AC 125V 1.5A (1EA)
		REF	DC200V 1.5A / MS-406-SS-01(2EA)
		REF(ICE ROOM)	125~250V /11A, EMB606
	Power cord		AC125V 15A
	Earth Screw		BSBN (BRASS SCREW)




PRODUCT SPECIFICATIONS

2-6)Dimensions of Refrigerator



PRODUCT SPECIFICATIONS

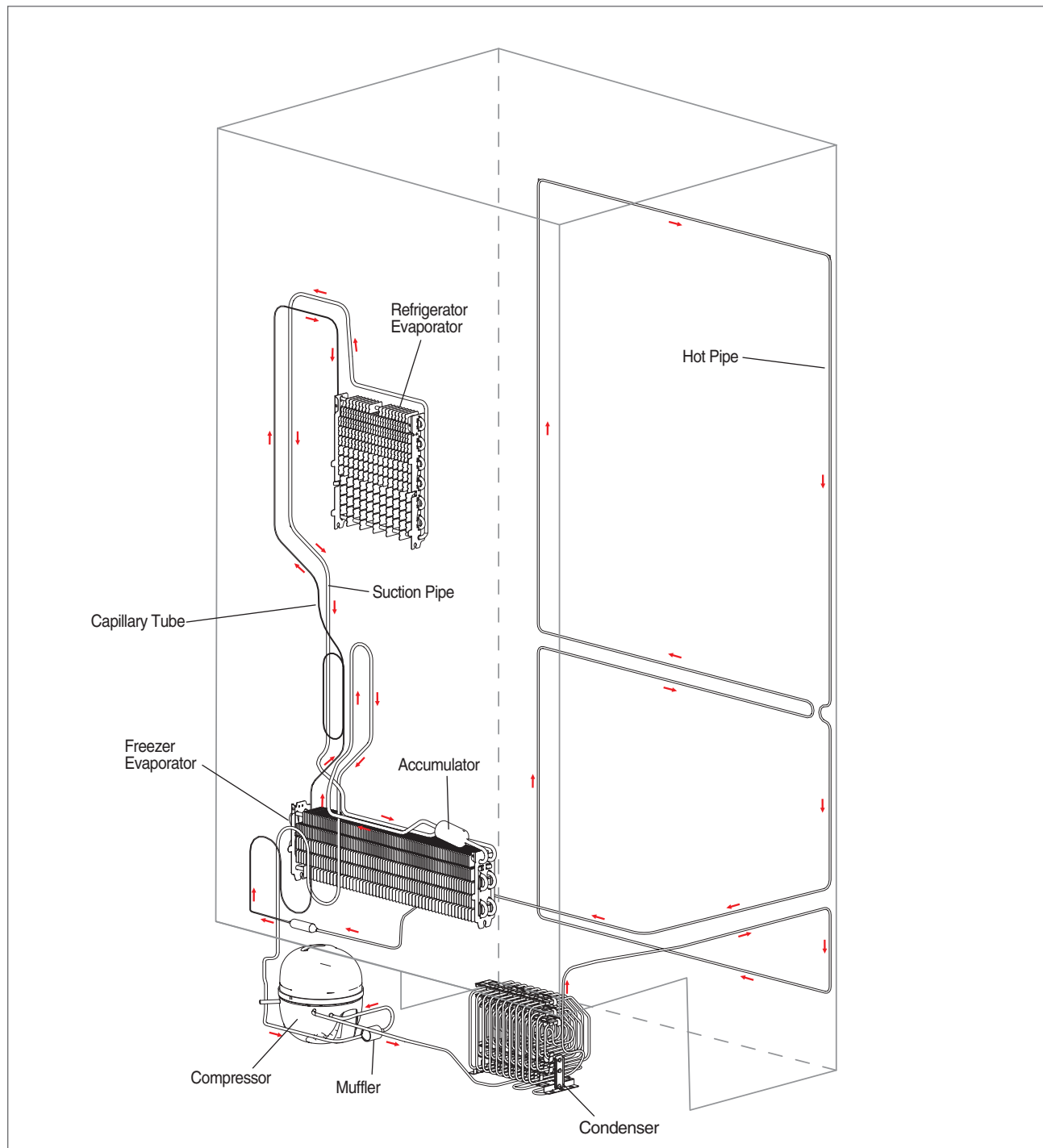
2-7) Optional Material Specification

	Part Name	Part Code	AMOUNT
	FILTER WATER-ASSY	DA29-00003B	1
	ASSY-PACKING SUB	DA99-00240S	1
	LAMP INCANDENT	4713-001223	3

PRODUCT SPECIFICATIONS

2-8) Refrigerant Route in Refrigeration cycle

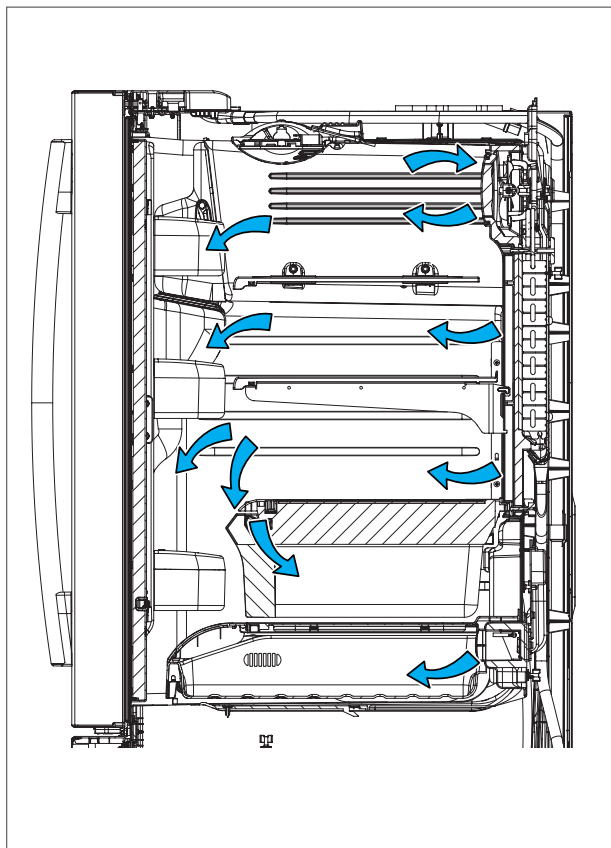
Compressor → condenser → Hot Pipe → Dryer → Capillary Tube → Refrigerator Evaporator → Freezer Evaporator → Suction Pipe → Compressor



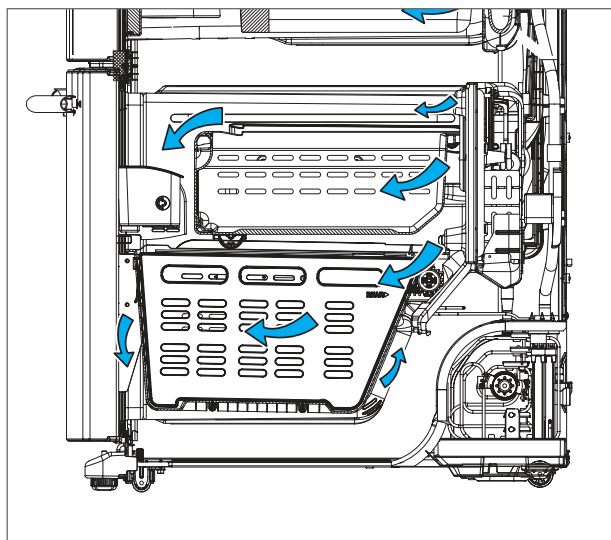
PRODUCT SPECIFICATIONS

2-9) Cooling Air Circulation

Refrigerator



Freezer



3. DISASSEMBLY AND REASSEMBLY





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ASSEMBLY & DISASSEMBLY

3-1) PRECAUTION

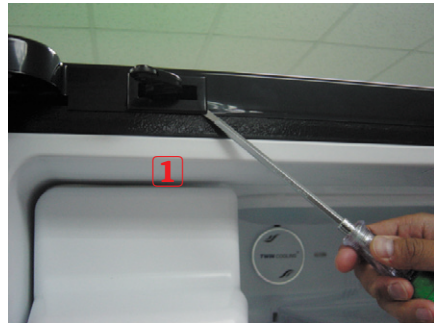
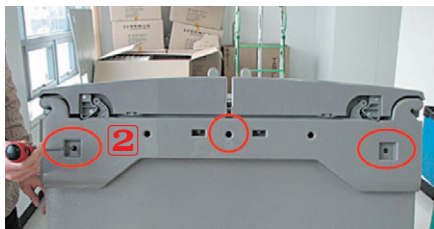
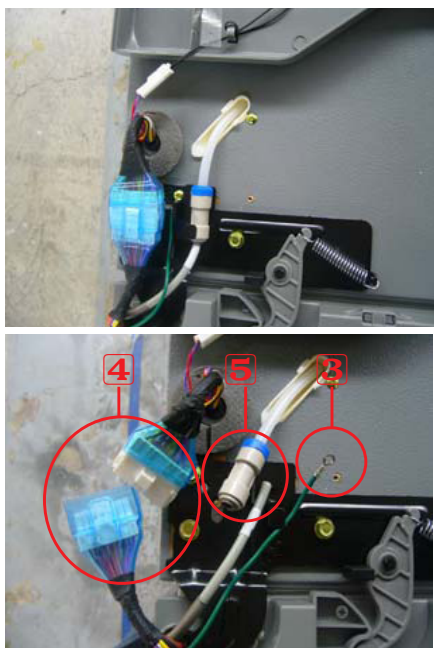
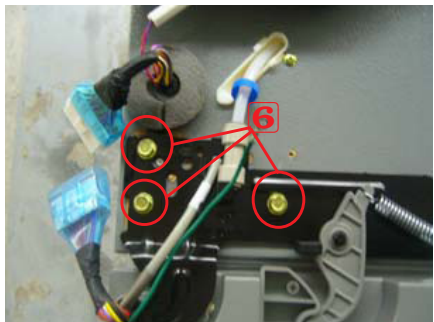
- Unplug the refrigerator before cleaning and making repairs.
- Remove any foreign matter or dust from the power plug pins.
 - Otherwise there is a risk of fire.
- Do not use a cord that shows cracks or abrasion damage along its length or at either end.
- Do not plug several appliances into the same multiple power board. The refrigerator should always be plugged into its own individual electrical which has a voltage rating that matched the rating plate.
 - This provides the best performance and also prevents overloading house wiring circuits, which could cause a fire hazard from overheated wires.
- Do not install the refrigerator in a damp place or place where it may come in contact with water.
 - Deteriorated insulation of electrical parts may cause an electric shock or fire.
- The refrigerator must be grounded.
 - You must ground the refrigerator to prevent any power leakages or electric shocks caused by current leakage from the refrigerator.
- Do not put bottles or glass containers in the freezer.
 - When the contents freeze, the glass may break and cause personal injury.
- Do not store volatile or flammable substances in the refrigerator.
 - The storage of benzene, thinner, alcohol, ether, LP gas and other such products may cause explosions.

- NEED TOOL


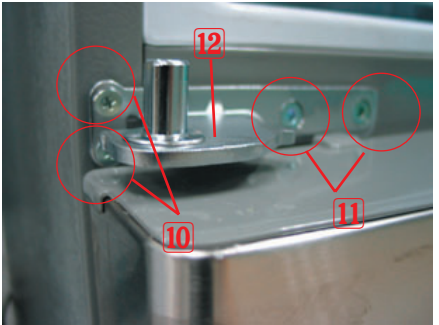
IMAGE	ITEM	USE
	Phillips Head Driver	Use for assembling and disassembling of screw
	Flat Head Driver	Use for assembling and disassembling of HomeBar, Dispenser, Deli Cartessen Box, Main PBA etc...
	Hex Wrench $\varnothing 5\text{mm}$	Use for assembling and disassembling of Middle Hinge
	Socket Wrench $\varnothing 10\text{mm}$	Use for assembling and disassembling of Door Hinge

DISASSEMBLY AND REASSEMBLY

3-2) Refrigerator Door


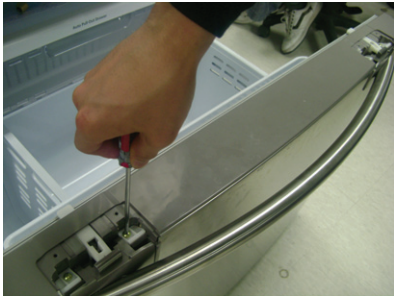
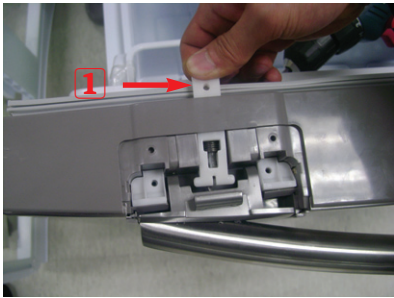
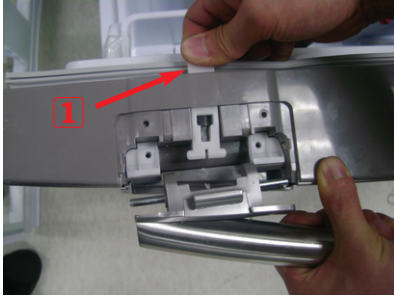

Part Name	How To Do	Descriptive Picture
Refrigerator Door	1. With the door opened, remove the Top Table cap(1) with a Flat head screwdriver, and close the door.	
	2. Remove the 3 screw holding down the Top Table and remove the Top Table(2).	
	3. Disconnect a earth wire(3), electronic connector(4) and a water(5)coupling . The blue and red clips are not on the coupling at first, but must be put at installation(6). Remove the 3 hex head bolts on the upper hinge with 10mm wrench.	
	4. Remove the 3 hex head bolts(7) found attached to the upper left and right door hinges with a Wrench(10mm). With a Philips head screwdriver, remove the ground screw(8) found attached to the upper left and right door hinges. Remove the upper left and right door hinges(9).	

DISASSEMBLY AND REASSEMBLY

Part Name	How To Do	Descriptive Picture
Refrigerator Door	5. Lift the door straight up to remove.	
	6. Remove 2 hex head bolts(7) with 5mm Allen Wrench(3/16") and an screw(8) with Philips screwdriver.	



DISASSEMBLY AND REASSEMBLY

3-3) Door Handle


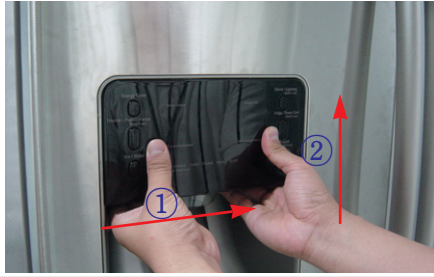
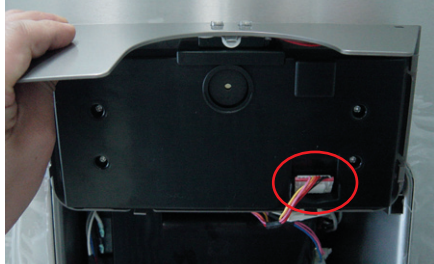
Part Name	How To Do	Descriptive Picture
Door Handle Freezer	1. Remove the Cap Door with a flat-blade(-) screwdriver.	
	2. Remove 4 screws	
	3. Lift up the handle to have the Slider Handle Fre(1) pushed back.	
	4. After having the Slider Handle Fre(1) pushed back, screw up at the hole.	
	5. Remove the door handle by lifting it up.	

DISASSEMBLY AND REASSEMBLY

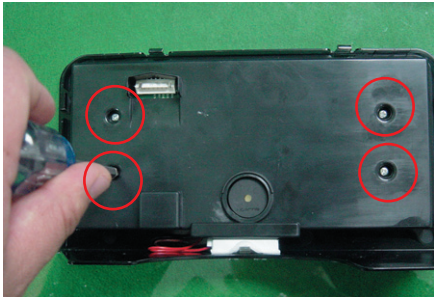
3-4) Refrigerator Light

Part Name	How To Do	Descriptive Picture
Refrigerator Light	1. Remove the lamp cover by pulling it down as pushing the rear of lamp cover.	
	2. Remove the screw. And separate the LED panel.	

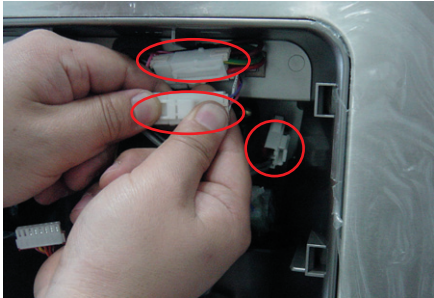
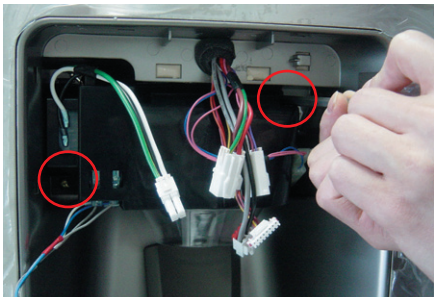
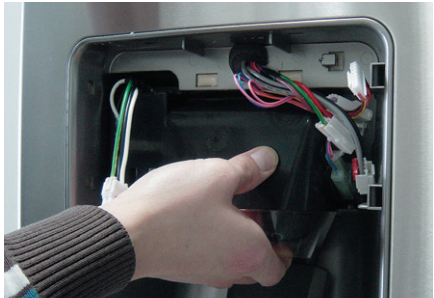
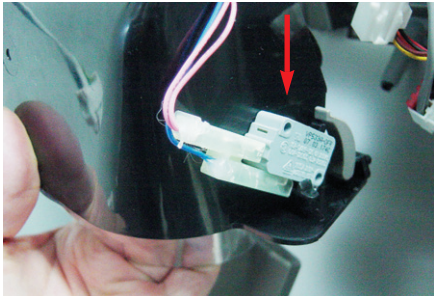
3-5) Cover-display & water-dispenser

Part Name	How To Do	Descriptive Picture
Cover-display	1. Insert a flat-blade screwdriver on the slot as shown in the picture, and unlock the tabs.	
	2. Remove the display cover by pushing it to the right side and pulling it up.	
	3. Disengage the housing connect of display cover	



DISASSEMBLY AND REASSEMBLY

Part Name	How To Do	Descriptive Picture
Cover-display	4. Remove 4 screws of cover-display	


3-6) Water-dispenser

Part Name	How To Do	Descriptive Picture
Water-dispenser	1. Disengage the 3 Housing Connect.	
	2. Remove 2 screws of the Case-Ice,Route Assy.	
	3. Pull the Case-Ice,Route Assy.	
	4. Push the hook and remove the Micro Switch.	

DISASSEMBLY AND REASSEMBLY


Part Name	How To Do	Descriptive Picture
Water-dispenser	1. Assembly shall be the contrary order from the disassemble. Case-Ice and Route shall be assembled inside of hose. Otherwise, assemble cannot be accomplished.	
	2. When assembling Cover-Display, first insert it from leftside and then assemble to rightside. Otherwise, the tab can be broken.	

3-7) Glass Shelf

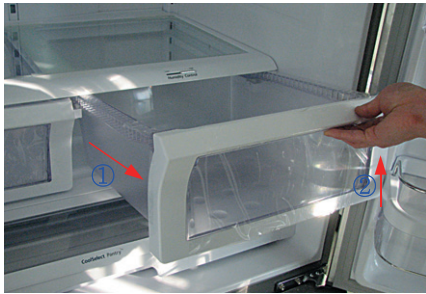
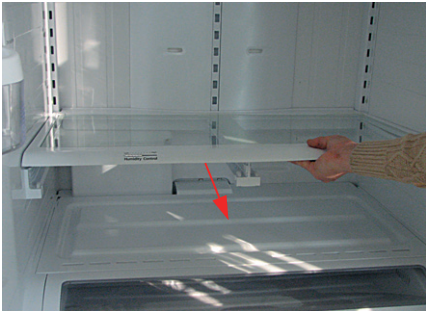
Part Name	How To Do	Descriptive Picture
Glass Shelf	Remove the shelf by lifting the front plane of the shelf up and pulling it out.	

DISASSEMBLY AND REASSEMBLY

3-8) Foldable Glass Shelf


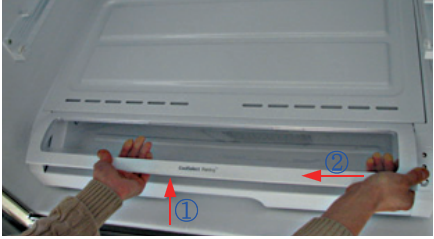

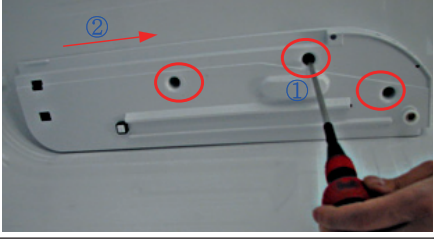

Part Name	How To Do	Descriptive Picture
Foldable Glass Shelf	Remove 2 screws of the Fold Glass Shelf	

3-9) Vegetable & Fruit Drawers Shelf

Part Name	How To Do	Descriptive Picture
Vegetable & Fruit Drawers Shelf	1. Remove the vegetable & fruit drawer by pulling the roller part and lifting it up.	
	2. Remove the vegetable & fruit drawers shelf by pulling it out. (Refer to the picture)	



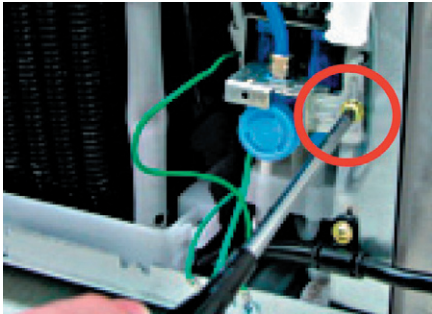
DISASSEMBLY AND REASSEMBLY

3-10) Cool Select Pantry

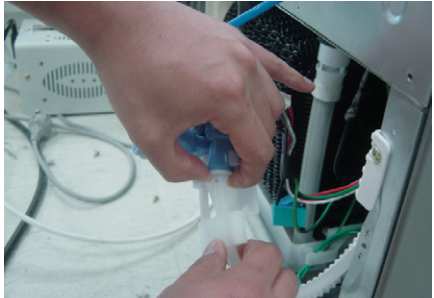
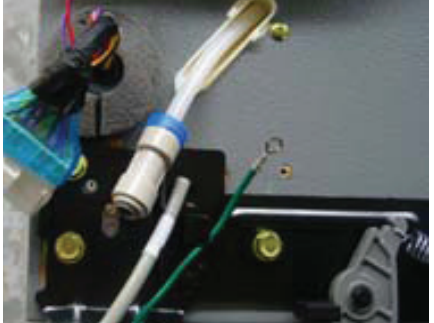



Part Name	How To Do	Descriptive Picture
Cool Select Pantry	1. Remove the cool select pantry by pulling the roller part and lifting it up.	
Cool Select Pantry Cover	1. Remove the cool select pantry cover by lifting the central part of the cover while pushing it to the left.	
Cool Select Pantry Shelf	1. Remove the cool select pantry shelf by lifting the front part of the shelf while pulling it.	
Cool Select Pantry Rail	1. Remove the cool select pantry rail by unscrewing the 3 screw parts and pulling the rail.	
	2. Disconnect the housing connector from the internal rail part. (Refer to the picture)	

DISASSEMBLY AND REASSEMBLY

3-11) Water Tank

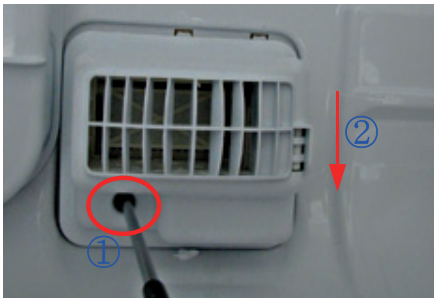

Part Name	How To Do	Descriptive Picture
Water Tank	<p>The Water Tank is located in the lower part of the fridge. Before disassembling the Water Tank take out shelf and drawers and pantry located in front of the Water Tank.</p> <p>1. Remove 2 screw of the Water Tank cover.</p>	
	<p>2. Disengage the housing connector.</p>	
	<p>One water Tube is located in the machine compartment of the refrigerator. Before disassembling the Water Tube, take out the compressor cover.</p> <p>5. Remove the water valve fixed by the screw.</p>	

DISASSEMBLY AND REASSEMBLY


Part Name	How To Do	Descriptive Picture
Water Tank	6. Disconnect the water tube by pushing the tube fitting apart as shown in the picture.	
	<p>The other Water Tube is located in the Top Table of the refrigerator. Before disassembling the Water Tube, take out the Top table.</p> <p>7. Remove the blue cap of water coupler with other tools.</p> <p>8. Disconnect the water coupler by pushing as shown in the picture.</p>	  
	9. Remove the Water Tank by pulling the Water Tube.	

DISASSEMBLY AND REASSEMBLY

3-12) Motor Damper

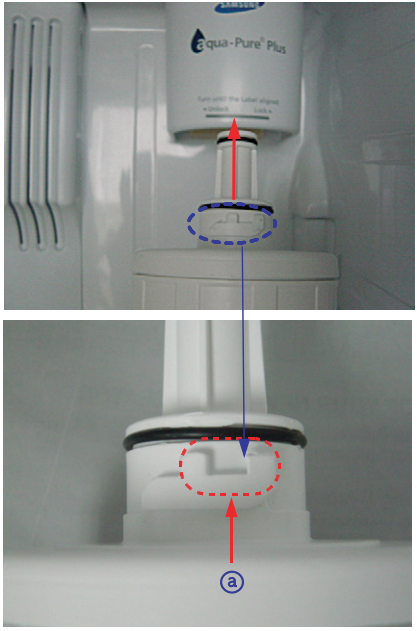

Part Name	How To Do	Descriptive Picture
Motor Damper	1. Remove the cool select pantry. Remove the screw part of lower motor damper part and then push the motor damper down.	
	2. Disengage 2 housing connectors from the rear motor damper. (Refer to the picture)	

3-13) Water Filter (Disassembly)


Part Name	How To Do	Descriptive Picture
Water Filter	<ol style="list-style-type: none"> 1. Remove the shelf by lifting the front plane of the shelf up and pulling it out. 2. Remove the water filter by turning it Counterclockwise. (Refer to the picture) 	

DISASSEMBLY AND REASSEMBLY

3-14) Water Filter (Reassembly)





Part Name	How To Do	Descriptive Picture
Water Filter	1. Place the part of (a) arrow (that is indicating in the picture) in the middle of the front filter cover and push it up.	
	2. Turn the water filter counterclockwise until central horizontal line of filter cover and both ends of water filter label are made all of the same width. (Refer to the picture.)	

3-15) Gallon Door Bin

Part Name	How To Do	Descriptive Picture
Gallon Door Bin	1. Remove the gallon door bin by lifting it up. (Refer to the picture)	



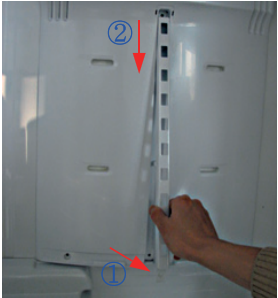


DISASSEMBLY AND REASSEMBLY

3-16) Vertical Hinged Section

Part Name	How To Do	Descriptive Picture
Vertical Hinged Section	1. Remove 2 screw cap parts with a flat-blade(-) screwdriver. (Refer to the picture)	
	2. Unscrew 2 screws.	
	3. Disengage the internal housing connector of the vertical hinge.	
	4. Remove the vertical hinged section by lifting the vertical hinge up. (Refer to the picture)	





DISASSEMBLY AND REASSEMBLY

3-17) Evaporator Cover In Refrigerator

Part Name	How To Do	Descriptive Picture
Evaporator Cover In Refrigerator	1. Remove the angle cap with a flat-blade screwdriver. (Refer to the picture)	
	2. Unscrew 4 screws.	
	3. Remove the the lower part of angle mid by pulling it out and pushing it down. (Refer to the picture)	
	4. Remove the hook by pulling it from the lower part and pushing the cover down. (Refer to the picture)	
	5. Disconnect the housing connector of the rear plane. (Refer to the picture)	

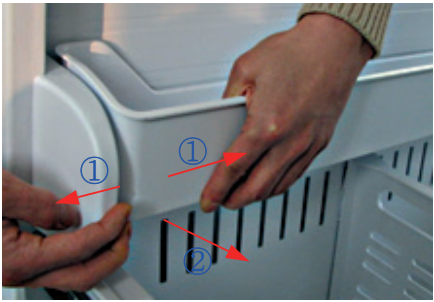


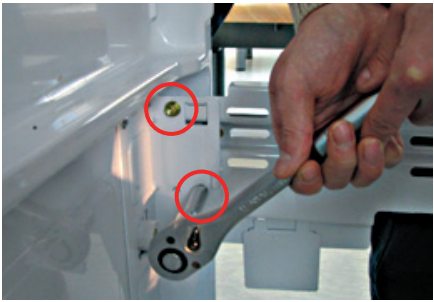

DISASSEMBLY AND REASSEMBLY

3-18) Evaporator In Refrigerator

Part Name	How To Do	Descriptive Picture
Evaporator In Refrigerator	1. Remove the the housing cover by pushing both lateral sides of the housing cover and pulling it out. (Refer to the picture)	
	2. Disconnect the housing connector part. (Refer to the picture)	
	3. Unscrew 2 screws.	
	4. Remove the evaporator by lifting the bottom side of it up and pulling it out. (Refer to the picture)	




DISASSEMBLY AND REASSEMBLY

3-19) Freezer Door

Part Name	How To Do	Descriptive Picture
Freezer Door	1. Open the freezer door. Remove the tilting pocket by pushing it to the left. (Refer to the picture)	
	2. Remove the 2 support tilting pockets with temporary force. (Refer to the picture)	
	3. Remove the freezer drawer bin by lifting the bottom part of it up. (Refer to the picture)	
	4. Remove 4 internal bolts at both lateral sides of rail part. (Refer to the picture)	
	5. Remove the freezer door by tilting the bottom part of it and lifting it up.	

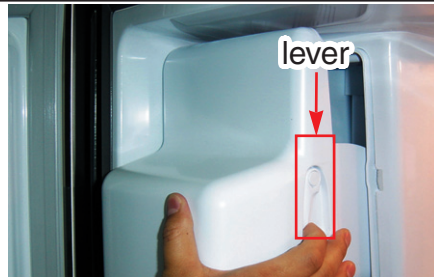


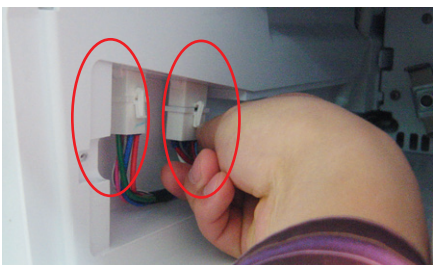
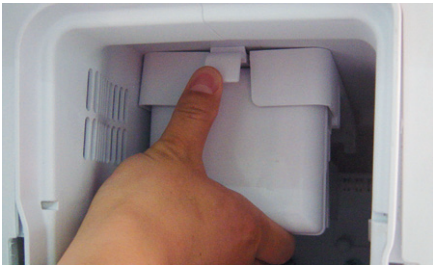

DISASSEMBLY AND REASSEMBLY

3-20) Pull Out Drawer

Part Name	How To Do	Descriptive Picture
Door Handle Freezer	1. Slide the drawer in as much as possible	
	2. Lift the drawer up	
	3. Remove the pull out drawer by lifting the bottom part of drawer bin and pulling it out.	


DISASSEMBLY AND REASSEMBLY

3-21) Ice-Maker

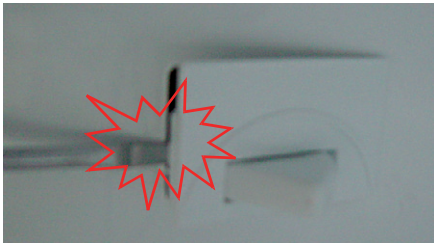
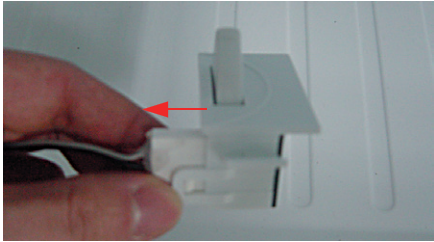
Part Name	How To Do	Descriptive Picture
Ice Maker	1. Pull the Ice-Bucket lever and out	
	2. Remove 1 screw of the Cover	
	3. Disassemble the cover with a flat-blade(-) screwdriver and pull it out.	
	4. Disengage the 2 housing connector.	
	5. Push hook and pull the Ice-Maker out.	
	6. To disassemble, push the tab and pull the case-auger and the motor out.	

DISASSEMBLY AND REASSEMBLY

3-22) Freezer Light




Part Name	How To Do	Descriptive Picture
Freezer Light	1. Remove the light by pulling the light cover down while pushing the rear plane of light cover.	

3-23) Door Switch In Freezer



Part Name	How To Do	Descriptive Picture
Door Switch In Freezer	1. Remove the freezer drawer bin by using a flat-blade(-) screwdriver.(Refer to the picture)	
	2. Disconnect the housing connector part.	

DISASSEMBLY AND REASSEMBLY

3-24) Evaporator Cover In Freezer

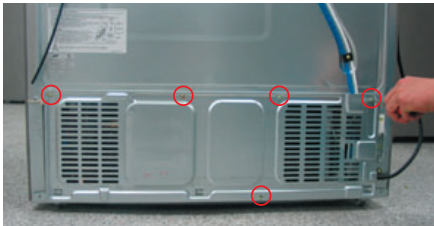
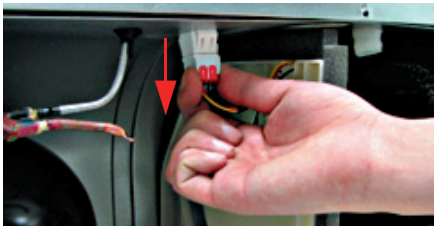
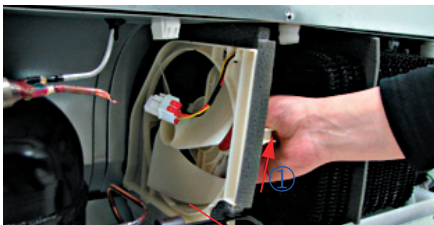



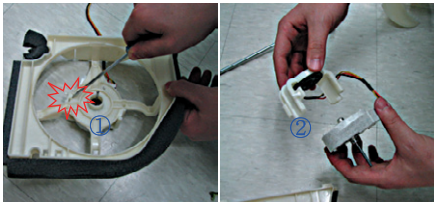
Part Name	How To Do	Descriptive Picture
Evaporator Cover In Freezer	1. Remove the freezer door and freezer drawer bin by pulling out the drawer and then unscrewing 2 screws.	
	2. Lift up the evaporator cover.	
	3. Disengage the 3 housing connector and remove the evaporator cover.	

3-25) Evaporator In Freezer

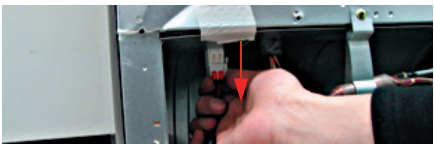


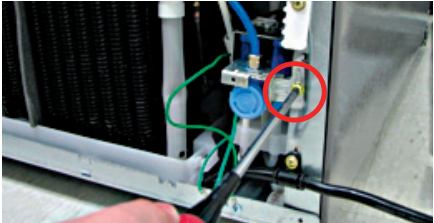

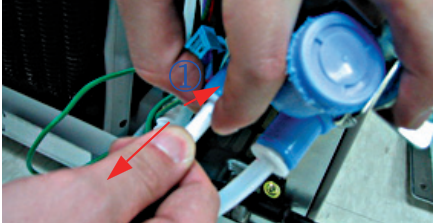
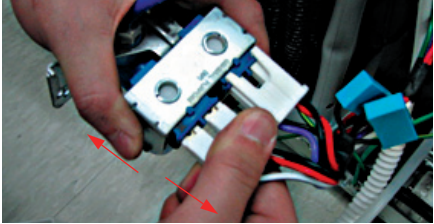
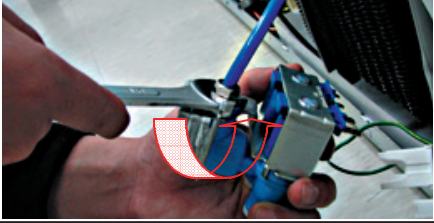
Part Name	How To Do	Descriptive Picture
Evaporator In Freezer	1. Remove the housing cover by pushing both lateral sides of housing cover part and pulling it out. Remove the housing connector part.	
	2. Remove the evaporator by pulling the lower part of the evaporator while lifting it up.	

DISASSEMBLY AND REASSEMBLY

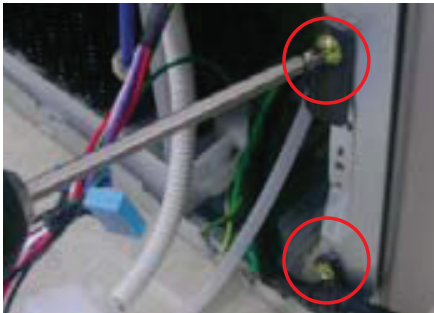
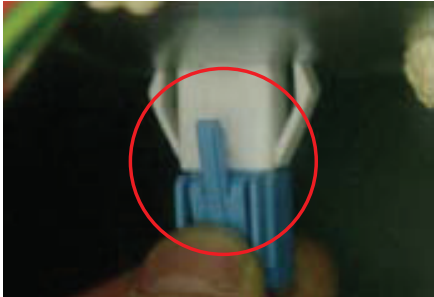
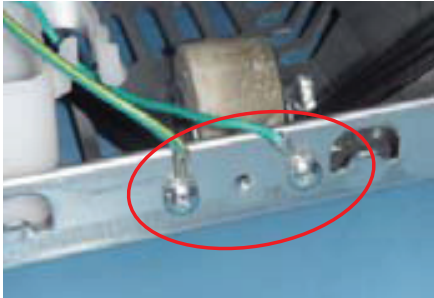


3-26) Machine Compartment

Part Name	How To Do	Descriptive Picture
Motor Fan	1. Unscrew 5 screws of cover compressor.	
	2. Disengage the housing connector. (Refer to the picture)	
	3. Remove the hooker of support circuit motor by lifting the hooker up and pulling it out.	
	4. Remove the spring with a flat-blade screwdriver. (Refer to the picture)	
	5. Remove the motor fan by pulling the fan out while grasping the motor part. (Refer to the picture)	
	6. Unscrew 2 screws fixed in the motor.	
	7. Remove the hook of the motor cover with a flat-blade (-) screwdriver and then remove the motor.	

DISASSEMBLY AND REASSEMBLY



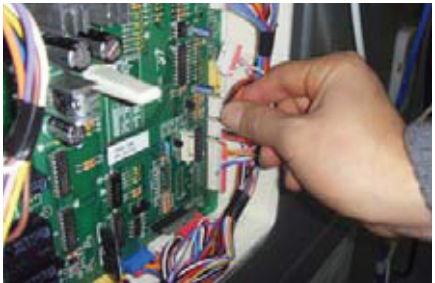
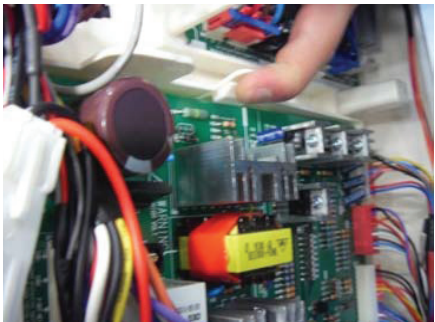

Part Name	How To Do	Descriptive Picture
Relay O/L	1. Disengage the housing connector.	
	2. Remove Cover Relay	
	3. Remove the relay O/L with a flat-blade screwdriver. (Refer to the picture)	
Water Valve	1. Unscrew the water valve fixed by the screw.	
	2. Remove the the hook part of the hose by pushing it down.	
	3. Remove 2 water hose parts while pushing the upper part of ①. (Refer to the picture)	
	4. Disengage 2 housing connector parts.	
	5. Remove the hose connected by the nut with a wrench(8mm).	

DISASSEMBLY AND REASSEMBLY

Part Name	How To Do	Descriptive Picture
Power Cord & Noise Filter	1. Unscrew 2 screws.	
	2. Disengage the housing connector.	
	3. Unscrew 2 earth screws.	
	4. Remove the cover by pushing the hook up using a flat screwdriver. (Refer to the picture)	
	5. Disengage the housing connector to separate the power cord and noise filter.	

DISASSEMBLY AND REASSEMBLY

3-27) Electric Box

Part Name	How To Do	Descriptive Picture
PBA Main	1. Pull the refrigerator forward to have enough space to work on the rear side of the appliance.	
	2. Unscrew 2 screws for the PCB cover.	
	3. Disengage all housing connectors connected with PBA MAIN.	
	4. Remove the PBA MAIN while lifting the upper part of the hook up. (Refer to the picture)	
PBA INVERTER	1. Remove cover and the all connectors on the PBA MAIN. Remove the PBA INVERTER while pushing	

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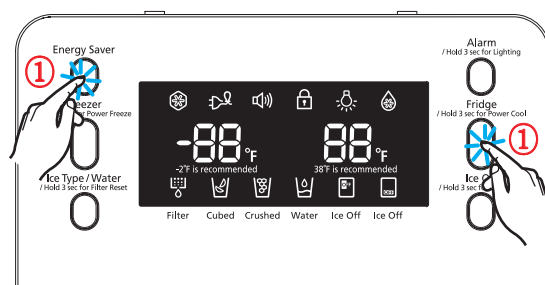
TROUBLESHOOTING

4-1) Function for failure diagnosis

4-1-1. Test mode (manual operation / manual defrost function)

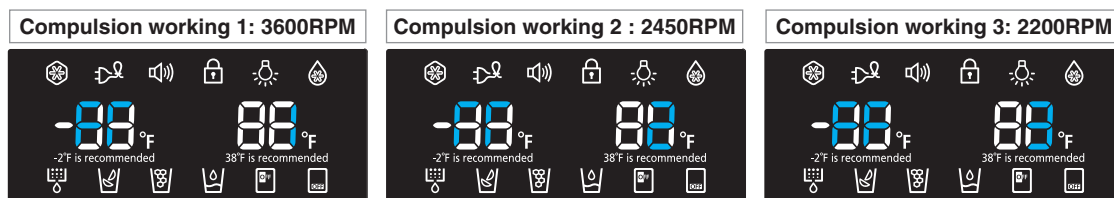
- If Energy Saver Key + Fridge Key on the front of panel are pressed simultaneously for 8 seconds, it will be changed to the test mode and all displays on the front of panel will be off.
- If any key on the front of panel is pressed within 15 seconds after the test mode, it will be operated as below sequence : manual operation(Freezer compartment 1) → manual operation(Freezer compartment 2) → manual operation(Freezer compartment 3) → manual defrost of fresh food and freezer compartments(Fd) → Cancel(Display all off).
- If any key on the front of panel is not pressed within 15 seconds after the test mode, the test mode will be canceled and it will be returned to previous mode.
- If the test mode is canceled, Recommend the power off and reactivate the refrigerator.

1) Manual operation function



- ① If Energy Saver Key + Fridge/Power Cool Key are pressed simultaneously for 8 seconds, (displays are all off)
It will be changed to the test mode (manual operation) by pressing any key

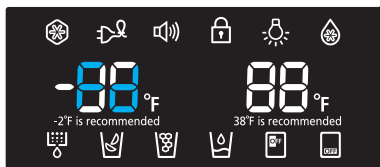
- 1-1) If any key is pressed once in test mode, blinks "FF-1" on the display and it indicates the refrigerator has entered the manual operation. At this moment, buzzer beeps as an alarm.



- 1-2) If any key is pressed once at the manual operation1 status, FF-2 will be displayed. And if any key is pressed one more time, FF-3 will be displayed. FF-2 and FF-3 means manual operation2 and 3 separately. These 3 functions operate with different RPM of COMP.
- 1-3) If manual operation is selected, compressor will run at once without 7 minutes delay in any mode. If the refrigerator is on the defrost cycle at the moment, defrost will be finished and manual operation will begin. (Be careful if manual operation get started at the moment of compressor off, over load could be occurred.)
- 1-4) If manual operation works, compressor & f-fan operate continuously for 24 hours and fresh food compartment will be controlled by the setting temperature.
- 1-5) When the manual operation runs, setting temperature will be selected automatically as below: freezer compartment -8°F(-22℃), fresh food compartment 32°F(1℃).
- 1-6) During manual operation, Power Freeze & Power Cool function will not be worked. If a function is selected, the power function icon of the selected function will be off.

TROUBLESHOOTING

2) Simultaneous manual defrost(fresh food and freezer compartments) function



2-1) If any key is pressed one more time during manual operation(fresh food compartment), "Fd" shows in the display and then manual operation will be canceled at once and fresh food and freezer compartment will be defrosted.

2-2) At this moment, alarm beeps for 3 seconds (0.1 sec ON/ 1 sec OFF) during manual defrost function of fresh food and freezer compartment.

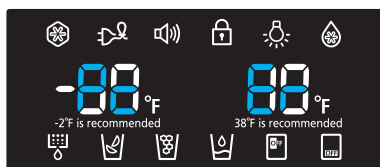
3) Test cancel mode

3-1) During defrosting of fresh food and freezer compartments simultaneously, if the display panel change to the test mode and test button is pressed one more time, defrosting of fresh food and freezer compartments will be canceled at the same time and will return to the normal operation. Or, all test functions will be canceled by turning main power ON and OFF.

4-1-2. Display function of Communication error

1) Display function when Panel ↔ MAIN MICOM communication has error

1-1) If there is no answer for 10 seconds after the panel micom received the requirement of communication, "Pc - Er" display on the panel PCB will be ON/OFF alternately until the communication error is canceled.(0.5 sec ALL ON, 0.5 sec ALL OFF alternately)



1-2) "Pc - E" display on the Pantry Room Display will be ON/OFF alternately until the communication error is canceled. (0.5 sec ALL ON, 1.5 sec ALL OFF alternately)

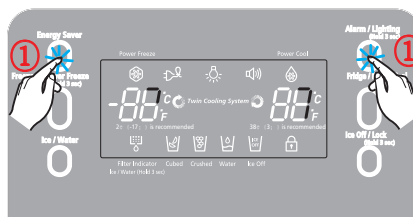
2) Display function when Panel ↔ MAIN MICOM OPTION has error

2-1) "OP - Er" code is repeatedly ON/OFF until Option error settles down.

TROUBLESHOOTING

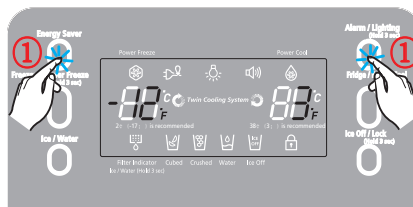
4-1-3. Self-diagnostic function

- 1) Self-diagnostic function in the Initial power ON
 - 1-1) Micom operates self-diagnostic function to check the temperature sensor condition within 1 second when the refrigerator turned On initially.
 - 1-2) If bad sensor is detected by the self-diagnostic function, the applicable display LED will blink for 0.5 sec.
At this moment, there is no beep sound.(Refer to self-diagnostic CHECK LIST)
 - 1-3) Self-diagnostic button is recognized only when the error is displayed by the bad sensor. Display does not operate normally but temperature control will be controlled by the emergency operation.
 - 1-4) When the error is detected by self-diagnosis, the error can be canceled automatically if all troubled sensors are corrected or Self-diagnostic function key (Energy Saver Key + Alarm/Lighting Key) are pressed simultaneously for 8 seconds.
(Return to normal display mode)



- ① If Energy Saver Key + Alarm/Lighting Key are pressed simultaneously for 8 seconds, the error mode by self-diagnosis will be canceled.

2) Self-diagnostic function during normal operation

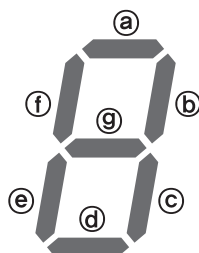
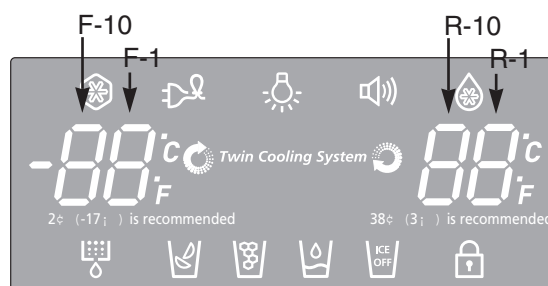


- 2-1) If Energy Saver Key + Alarm/Lighting Key are pressed simultaneously for 6 seconds during normal operation, the temperature setting display will operate for 2 seconds (ON/OFF 0.5sec each).
If Energy Saver Key + Alarm/Lighting Key are pressed simultaneously for 8 seconds (including above 2 seconds), self-diagnostic function will be selected.
- 2-2) At this moment, self-diagnostic function will be returned with buzzer sound 'ding-dong'.
If there is an error, display of error will be operated for 30 seconds and then return to normal condition whether problem is corrected or not.
(Refer to self-diagnosis CHECK LIST)
- 2-3) Input by button is not accepted during self-diagnostic function.

TROUBLESHOOTING

* Self-diagnosis CHECK LIST

NO	Trouble item	Display LED	Trouble contents
1	Ice Maker Sensor Error	R-1-(a)	ICE MAKER SENSOR part error
2	R-Sensor Error	R-1-(b)	R SENSOR part error
3	R-DEF-Sensor Error	R-1-(c)	R defrost SENSOR part error
4	R-FAN Error	R-1-(d)	R inner part error
5	Ice Maker Error	R-1-(e)	ICE MAKER operation error
6	R-DEF, Heater Error	R-1-(g)	R defrost part error
7	Ambient-Sensor Error	F-1-(a)	external SENSOR part error
8	F-Sensor Error	F-1-(b)	F SENSOR part error
9	F-DEF-Sensor Error	F-1-(c)	F defrost SENSOR part error
10	F-FAN Error	F-1-(d)	F inner fan motor part error
11	C-FAN Error	F-1-(e)	machine room fan motor part error
12	Ice Room-Sensor Error	F-1-(f)	ICE ROOM SENSOR part error
13	F-DEF.-Heater Error	F-1-(g)	F defrost part error
14	Ice Room FAN Error	F-10-(b)	ICE ROOM inner fan motor part error
15	Pantry-Damper-Heater Error	R-10-(a)	Damper Heater open/wire error
16	Pantry-Sensor Error	R-10-(b)	Pantry Room SENSOR part error
17	Panel↔Main Micom Error	F-10-(g)	Panel↔Mai Micom communication error
18	Water Tank-Heaer Error	R-10-(g)	Water Tank Heater open/wire error



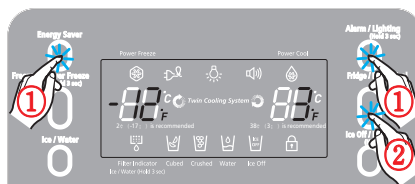
TROUBLESHOOTING

* Self-diagnostics check list

LED	Item	Trouble contents	Diagnostic method
R-1- ^(a)	Ice Maker Sensor Error	Display error : separation of sensor housing part, contact error, disconnection, short circuit	When checking the voltage of MAIN PCB CN90 #8↔CN90#4 : should be between 4.5V~1.0V.
R-1- ^(b)	R-Sensor Error	Display error of detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F (-50°C)	When checking the voltage of MAIN PCB CN30#6↔CN76#1: should be between 4.5V~1.0V
R-1- ^(c)	R-DEF-Sensor Error		When checking the voltage of MAIN PCB CN30#8↔CN76#1 : should be between 4.5V~1.0V
R-1- ^(d)	R-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, separation of motor wire, motor error	Voltage of MAIN PCB CN76#4(Orange) ↔ CN76#1(Gray) should be between 7V~12V
R-1- ^(e)	Ice Maker Error	Display error : ice making kit is harvested more than 3 times and level error ** Apply to the applicable Ice Maker model.	After replacing ice maker, check the operation by turning the appliance ON again.
R-1- ^(g)	R-DEF. Error	Display error : separation of fresh food compartment defrost heater housing part, contact error, disconnection, short circuit or temperature fuse error. Display error : the defrosting does not finish though fresh food compartment defrost is heating continuously for more than 80 minutes.	After separating MAIN PCB CN70,CN71 from PCB, check the resistance value between CN70 White ↔ CN71 Orange should be 102(441) ohm ± 7%. (resistance value is varied by the input power) Check 0 Ohm : heater short, ∞ Ohm : wire / bimetal Open.
F-1- ^(a)	Ambient-Sensor Error	Display error : sensor housing separation, contact error, disconnection, short circuit	When checking the voltage of MAIN PCB CN31#1↔#4 : should be between 4.5V~1.0V.
F-1- ^(b)	F-Sensor Error	Display error by detecting temperature of sensor: more than 149°F(+65°C) or less than -58°F(-50°C)	When checking the voltage of MAIN PCB CN30#3↔CN76#1: should be between 4.5V~1.0V
F-1- ^(c)	DEF-Sensor Error		When check the voltage of MAIN PCB CN30#4↔CN76#1: should be between 4.5V~1.0V
F-1- ^(d)	F-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, motor wire separation, motor error	Voltage of MAIN PCB CN76#3(Yellow)↔CN76#1(Gray) should be between 7V~12V.
F-1- ^(e)	C-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, motor wire separation, motor error	Voltage of MAIN PCB CN76#5(SkyBlue) ↔ CN76#1(Gray) should be between 7V~12V.
F-1- ^(f)	Ice Room Sensor Error	Display error : sensor housing separation,contact error, disconnection, short circuit. Display error by detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F (-50°C)	When check the voltage of MAIN PCB CN31#3↔CN76#1: should be between 4.5V~1.0V
F-1- ^(g)	F-DEF. Error	Display error : separation of freezer compartment defrost heater housing part , contact error, disconnection, short circuit or temperature fuse error. Display error : the defrosting does not finish though fresh food compartment defrost is heating continuously for more than 70 minutes.	After separating MAIN PCB CN70,CN71 from PCB, check the resistance value between CN70 brown ↔ CN71 Orange should be 55(115V)ohm ± 7%. (resistance value is varied by input power) Check 0 Ohm : heater short, ∞ Ohm : wire / bimetal Open.
F-10- ^(b)	Ice Room-FAN Error	Display error during operation of applicable fan motor : Feed Back signal line contact error, motor wire separation, motor error	Voltage of MAIN PCB CN76#2(Black) ↔ CN75 : should be between 6V~12V.
R-10- ^(a)	Pantry-Damper-Heater Error	Display error when open error is detected by damper heater : separation of Damper Heater housing part, contact error, disconnection, short circuit	After separating MAIN PCB CN91from PCB, check the resistance value between Black ↔ brown wire should be 145 ohm ± 7%. Check 0 Ohm : heater short, ∞ Ohm : wire / bimetal Open.
R-10- ^(b)	Pantry-Sensor Error	Display error : separation of sensor housing, contact error, disconnection, short circuit. Display error by detecting temperature of sensor: more than 149°F (+65°C) or less than -58°F (-50°C)	When checking the voltage of MAIN PCB CN30#9 ↔ CN76#1 : should be between 4.5V~1.0V.
R-10- ^(g)	Water Tank-Heater Error	Display error when open error is detected by Water Tank Heater : separation of Water Tank Heater housing part,contact error, disconnection, short circuit	After separating MAIN PCB CN79 from PCB, check the resistance value between Black ↔brown wire should be 72 ohm 7%. Check 0 Ohm : heater short, ∞Ohm : wire / bimetal Open.
F-10- ^(g)	Panel↔Main communication Error	Display "oP/LC-Er" in the panel with alarm : MICOM MAIN ↔ LOAD communication error MICOM MAIN ↔ PANEL communication error LC-Er is displayed when the Option is not equivalent with the right value	Actually, it is desirable to recheck the condition with the oscilloscope(1G Hz) after replacing Main and Panel PCB.

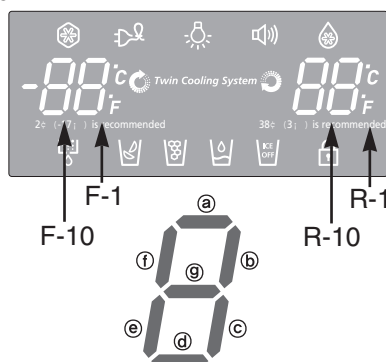
TROUBLESHOOTING

4-1-4. Display function of Load condition



- ① If Energy Saver Key + Alarm/Lighting key are pressed simultaneously for 6 seconds, ALL ON/OFF will blink with 0.5 interval for 2 seconds.
- ② If take the finger off from above keys and press Fridge/Power Cool Key, load condition mode will be started.

- 1) If Power Energy Saver Key + Alarm/Lighting key are pressed simultaneously for 6 seconds during normal operation, the temperature setting display of fresh food and freezer compartments will blink ALL ON/OFF with 0.5 for 2 seconds.
- 2) At this moment, If Fridge/Power Cool Key after Energy Saver Key + Alarm/Lighting Key is pressed, load condition display mode will be returned with alarm.
- 3) Load condition display mode shows the load that micom signal is outputting. However, It means that micom signal is outputting, it does not mean whether load is operating or not. That is to say that though load operation is displayed, load could not be operated by actual load error or PCB relay error etc. (This function would be applied at A/S.)
- 4) Load condition display function will maintain for 30 seconds and then normal condition will be returned automatically.
- 5) Load condition display is as below.

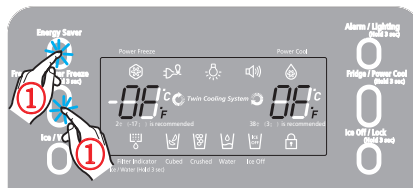


* Load mode Check list

Display LED	Display contents	Operation contents
R-1-a	R-FAN High	When fresh food compartment fan high operates, applicable LED ON
R-1-b	R-FAN Low	When fresh food compartment fan low operates, applicable LED ON
R-1-c	R-DEF Heater	When fresh food compartment defrost heater operates, LED ON
R-1-d	Start Mode	Initial power ON refrigerator, LED ON
R-1-e	Overload condition	When ambient temperature is more than 93°F(34°C), LED ON
R-1-f	Low temperature condition	When ambient temperature is less than 72°F(22°C), LED ON
F-1-e, f	ALL LED Off	Normal Condition
R1-g	Exhibition Mode	Display mode, LED ON
F-1-a	COMP.	When compressor operates, applicable LED ON
F-1-b	F-FAN High	When freezer compartment fan high operates, applicable LED ON
F-1-c	F-FAN Low	When freezer compartment fan low operates, applicable LED ON
F-1-d	F-DEF Heater	When freezer compartment defrost heater operates, LED ON
R-10-e	C-FAN High	When compressor fan high operates, applicable LED ON
R-10-f	C-FAN Low	When compressor fan low operates, applicable LED ON
F-1-g	Dispenser Heater	When Dispenser Heater operates LED ON.
F-10-a	Water Tank Heater	When Water Tank Heater operates LED ON.
F-10-d	Ice Room-FAN High	When Ice Room-FAN High operates LED ON.
F-10-e	Ice Room-FAN Low	When Ice Room-FAN Low operates LED ON.
F-10-g	French Heater	When French Heater operates LED ON
R-10-a	Pantry Room Damper Open	When Damper opens LED ON.

TROUBLESHOOTING

4-1-5. Cooling off mode setting function



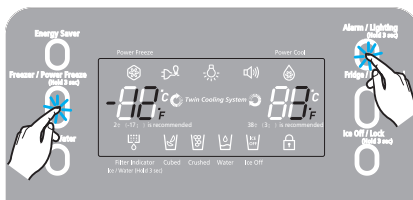
- ① If Energy Saver Key + Power Freeze Key are pressed for 3 seconds, Cooling off mode will be started.

- 1) If Energy Saver Key + Freezer/Power Freeze are pressed simultaneously for 3 seconds during normal operation, Cooling off mode will be started with buzzer sound(ding-dong).
- 2) If above Energy Saver Key + Freeze/Power Freeze are pressed one more time, Cooling off mode will be canceled.
- 3) If Cooling off mode is selected, blinks "OF-OF" on the temperature setting display of the panel and it indicates the refrigerator has entered the Cooling off mode.
- 4) During Cooling off mode, if fresh food and freezer compartments sensors are higher than 149°F (65°C) Cooling off mode will be canceled automatically and freezing operation will be returned. (There is no buzzer sound when the Cooling off mode is canceled by the temperature)
- 5) Operation contents of Cooling off mode
 - Display, Fan motor and etc operate normally, not to operate compressor only.
 - Defrost is not operated. (including french heater)
 - Display function of the initial real temperature is finished.
 - Under the condition of Cooling off mode, Cooling off mode will be operated when Power On after Power OFF.

4-1-6. Option setting function

- If Freezer/Power Freeze Key+ Alarm/lighting Key are pressed simultaneously for 12 seconds during normal operation, fresh food and freezer compartments temperature display will be changed to option setting mode.

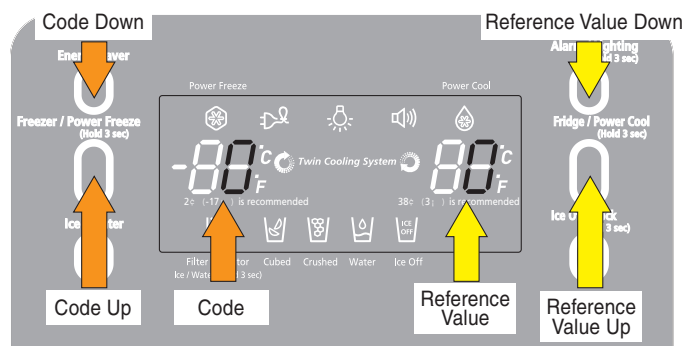
KEY operation method for changing to option mode



- ① If Freezer/Power Freeze Key+ Alarm/lighting Key are pressed simultaneously for 12 seconds, option setting mode will be started.

TROUBLESHOOTING

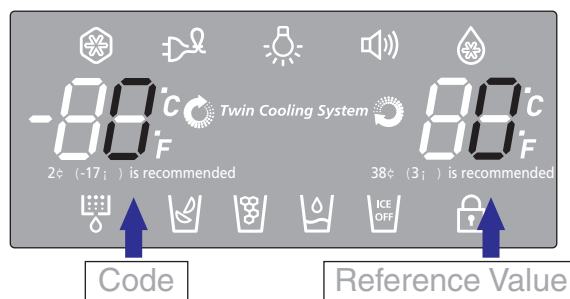
KEY control method after converting to option mode



* Key control in option mode

Energy Saver	Code Down key
Freezer/Power Freeze	Code Up key
Alarm/Lighting	Reference Value down key
Fridge/Power Cool	Reference Value Up key

- If the display changes to option setting mode, all displays will be off except freezer and fridge compartments temperature display as below.
(Fresh food and freezer compartments case will be explained only because all options are operated with the same method according to the option table.)



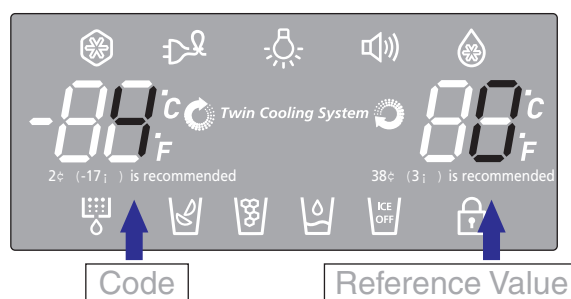
- 1) For example, if you want to change freezer compartment standard temperature to -4°F(-2°C) by operating option, do as below.
This function is for changing the standard temperature.
In -2°F(-19°C) of current temperature of freezer compartment, if you make the temperature lower to -4°F(-2°C) by the option, the standard temperature would be controlled -6°F(-21°C). Therefore, if you change the setting of temperature option to -2°F(-19°C) on the panel, the appliance will be operated with -6°F(-21°C).
It means that standard temperature is controlled -4°F(-2°C) less than setting temperature in the display.



Basically, option function has cleared data at shipping process.
Therefore, almost all setting value are "0".
Check the product information manual or specifications because setting value could be changed particularly for the purpose of improving product at mass producing process.

TROUBLESHOOTING

- 2) After changing to the option mode, fresh food compartment "0" , freezer compartment "0" will be displayed. (Basically fresh food compartment "0", freezer "0" would be set at shipping process, but setting value could be changed for the purpose of improving product at mass producing process.)
 - If fresh food compartment "0" shows only, temperature reference value of freezer compartment will be set and current freezer compartment temperature code will be displayed on the freezer temperature display.
- 3) If freezer compartment "4" is set as below freezer compartment code after fresh food compartment "0" is set, standard temperature of freezer compartment will be lower than -4°F (-2.0°C).
(Refer to the picture "changing the freezer compartment temperature")



- : If you wait for 20 seconds after completing the setting, MICOM will save the setting value to the EEPROM and normal display will be returned and the option setting mode will be canceled.
- 4) Option changing method as above is the same as all RF267**/RF26V** model.
 - 5) By the same method as above, it is possible to control the fresh food compartment temperature, water supply, ice-maker harvest temperature/time, defrost return time, hysteresis by temperature, notch gap by temperature etc.
 - 6) Option function is set in the EEPROM at shipping process in the factory.
You would better not to change the option of your own.
Completing the setting is that option function return to normal display after 20 seconds.
Do not turn off the appliance before returning to the normal display mode.



NOTE

Option setting function exists in the other items.
We will skip the explanation of the other functions by the option because it is associated with refrigerator control function and is not needed at SERVICE.
(Please do not set the other options except above SERVICE Manual.)

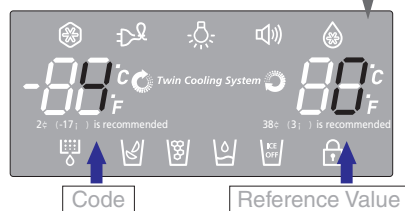
TROUBLESHOOTING

4-1-7. Option TABLE

1) Temperature changing table of freezer compartment

Set item	Freezer Temp Shift
MODEL	RF267/RF26V
Reference Value	Fridge Room 7-SEG
	0

Setting value	Temp. compensation
FZ compartment Code	
0	0
1	-1°F(-0.5°C)
2	-2°F(-1.0°C)
3	-3°F(-1.5°C)
4	-4°F(-2.0°C)
5	-5°F(-2.5°C)
6	-6°F(-3.0°C)
7	-7°F(-3.5°C)
8	+1°F(+0.5°C)
9	+2°F(+1.0°C)
10	+3°F(+1.5°C)
11	+4°F(+2.0°C)
12	+5°F(+2.5°C)
13	+6°F(+3.0°C)
14	+7°F(+3.5°C)
15	+8°F(+4.0°C)



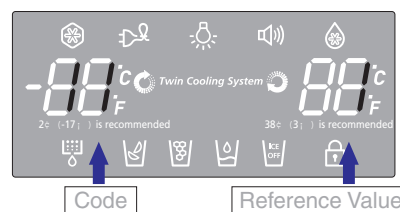
ex) If you want to change the freezer standard temperature to -4°F(-2°C)

2) Temperature changing table of fresh food compartment

Set item	Freezer Temp Shift
MODEL	RF267/RF26V
Reference Value	Fridge Room 7-SEG
	1

Setting value	Temp. compensation
FZ compartment Code	
0	0
1	-1°F(-0.5°C)
2	-2°F(-1.0°C)
3	-3°F(-1.5°C)
4	-4°F(-2.0°C)
5	-5°F(-2.5°C)
6	-6°F(-3.0°C)
7	-7°F(-3.5°C)
8	+1°F(+0.5°C)
9	+2°F(+1.0°C)
10	+3°F(+1.5°C)
11	+4°F(+2.0°C)
12	+5°F(+2.5°C)
13	+6°F(+3.0°C)
14	+7°F(+3.5°C)
15	+8°F(+4.0°C)

ex) If you want to change the freezer compartment standard temperature to 4°F(2°C)



TROUBLESHOOTING

4-2) Diagnostic method according to the trouble symptom(Flow Chart)

DATA1.Temperature table

Resistance value and MICOM port voltage of sensor according to the temperature

SENSOR CHIP : based on PX41C

°C	°F	Voltage	Resistance	°C	°F	Voltage	Resistance	°C	°F	Voltage	Resistance
-50	-58	4.694	153319	-5	23	3.107	16419	40	104	1.153	2997
-49	-56.2	4.677	144794	-4	24.8	3.057	15731	41	105.8	1.124	2899
-48	-54.4	4.659	136798	-3	26.6	3.006	15076	42	107.6	1.095	2805
-47	-52.6	4.641	129294	-2	28.4	2.955	14452	43	109.4	1.068	2714
-46	-50.8	4.622	122248	-1	30.2	2.904	13857	44	111.2	1.040	2627
-45	-49	4.602	115631	0	32	2.853	13290	45	113	1.014	2543
-44	-47.2	4.581	109413	1	33.8	2.802	12749	46	114.8	0.988	2462
-43	-45.4	4.560	103569	2	35.6	2.751	12233	47	116.6	0.963	2384
-42	-43.6	4.537	98073	3	37.4	2.700	11741	48	118.4	0.938	2309
-41	-41.8	4.514	92903	4	39.2	2.649	11271	49	120.2	0.914	2237
-40	-40	4.490	88037	5	41	2.599	10823	50	122	0.891	2167
-39	-38.2	4.465	83456	6	42.8	2.548	10395	51	123.8	0.868	2100
-38	-36.4	4.439	79142	7	44.6	2.498	9986	52	125.6	0.846	2036
-37	-34.6	4.412	75077	8	46.4	2.449	9596	53	127.4	0.824	1973
-36	-32.8	4.385	71246	9	48.2	2.399	9223	54	129.2	0.803	1913
-35	-31	4.356	67634	10	50	2.350	8867	55	131	0.783	1855
-34	-29.2	4.326	64227	11	51.8	2.301	8526	56	132.8	0.762	1799
-33	-27.4	4.296	61012	12	53.6	2.253	8200	57	134.6	0.743	1745
-32	-25.6	4.264	57977	13	55.4	2.205	7888	58	136.4	0.724	1693
-31	-23.8	4.232	55112	14	57.2	2.158	7590	59	138.2	0.706	1642
-30	-22	4.199	52406	15	59	2.111	7305	60	140	0.688	1594
-29	-20.2	4.165	49848	16	60.8	2.064	7032	61	141.8	0.670	1547
-28	-18.4	4.129	47431	17	62.6	2.019	6771	62	143.6	0.653	1502
-27	-16.6	4.093	45146	18	64.4	1.974	6521	63	145.4	0.636	1458
-26	-14.8	4.056	42984	19	66.2	1.929	6281	64	147.2	0.620	1416
-25	-13	4.018	40938	20	68	1.885	6052	65	149	0.604	1375
-24	-11.2	3.980	39002	21	69.8	1.842	5832	66	150.8	0.589	1335
-23	-9.4	3.940	37169	22	71.6	1.799	5621	67	152.6	0.574	1297
-22	-7.6	3.899	35433	23	73.4	1.757	5419	68	154.4	0.560	1260
-21	-5.8	3.858	33788	24	75.2	1.716	5225	69	156.2	0.546	1225
-20	-4	3.816	32230	25	77	1.675	5039	70	158	0.532	1190
-19	-2.2	3.773	30752	26	78.8	1.636	4861	71	159.8	0.519	1157
-18	-0.4	3.729	29350	27	80.6	1.596	4690	72	161.6	0.506	1125
-17	1.4	3.685	28021	28	82.4	1.558	4526	73	163.4	0.493	1093
-16	3.2	3.640	26760	29	84.2	1.520	4369	74	165.2	0.481	1063
-15	5	3.594	25562	30	86	1.483	4218	75	167	0.469	1034
-14	6.8	3.548	24425	31	87.8	1.447	4072	76	168.8	0.457	1006
-13	8.6	3.501	23345	32	89.6	1.412	3933	77	170.6	0.446	978
-12	10.4	3.453	22320	33	91.4	1.377	3799	78	172.4	0.435	952
-11	12.2	3.405	21345	34	93.2	1.343	3670	79	174.2	0.424	926
-10	14	3.356	20418	35	95	1.309	3547	80	176	0.414	902
-9	15.8	3.307	19537	36	96.8	1.277	3428	81	177.8	0.404	877
-8	17.6	3.258	18698	37	98.6	1.253	3344	82	179.6	0.394	854
-7	19.4	3.208	17901	38	100.4	1.213	3204	83	181.4	0.384	832
-6	21.2	3.158	17142	39	102.2	1.183	3098	84	183.2	0.375	810

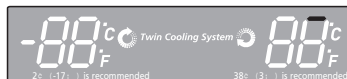
TROUBLESHOOTING

4-2-1. If the trouble is detected by self-diagnosis

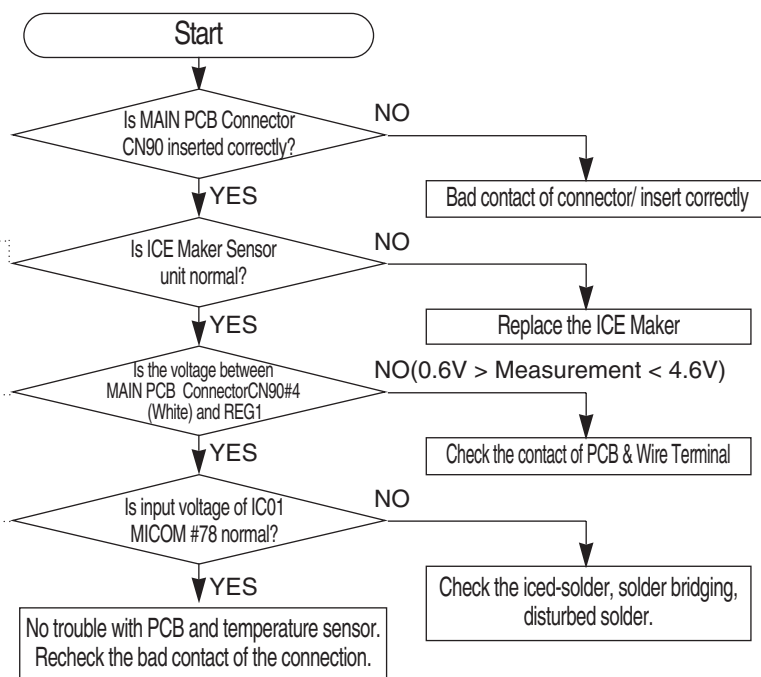
- The error of sensor will be displayed on the front of display.
when the error of sensor is detected at initial power ON, the appliance will not operated and display of abnormal sensor part will blink.
- The appliance will not stop operating when the error of sensor is detected during operation of the appliance.
But normal freezing might be not operated if the appliance is operated by the emergency operation mode. You would better to check the appliance according to the self-diagnosis of the manual.

1) If ICE Maker Sensor has trouble

ERROR Code



DATA1. Temperature table	
** Measuring point of resistance value according to Sensor **	
ICE MAKER : CN90#8 ↔ #4 measuring resistance value	
** 0 Ω : Short trouble / ∞ Ω : Open trouble	
Refer to circuit diagram in the manual	
Sensor MICOM/Connector number	
ICE Maker	Connector CN90#4 (White) and REG1 HEAT PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	
Measuring voltage of IC01 MICOM #78, CN90#4 (White) and REG1, HEAT SINK from PCB typical Ground part are similar. ↔ Check the measure on the SENSOR MARKING #9 (R901) due to the SMD MICOM	



- ☞ Checking method of ICE Maker Sensor resistance CN90#8 (Sky-blue) ↔ #4 (White)
- Compare the temperature table after the measure.



- ☞ Checking method of ICE Maker Sensor voltage
- Measure the voltage of Sensor Check Point #9 (IC01 MICOM #78) or CN90#4 (White) ↔ REG1, HEAT SINK.
 - Compare the temperature table after the measure. Measuring voltage of CN90#4 (White) ↔ REG1, HEAT SINK are below.



typical PCB Ground
REG1 HEAT-SINK



TROUBLESHOOTING

2) If R Sensor has trouble

ERROR Code



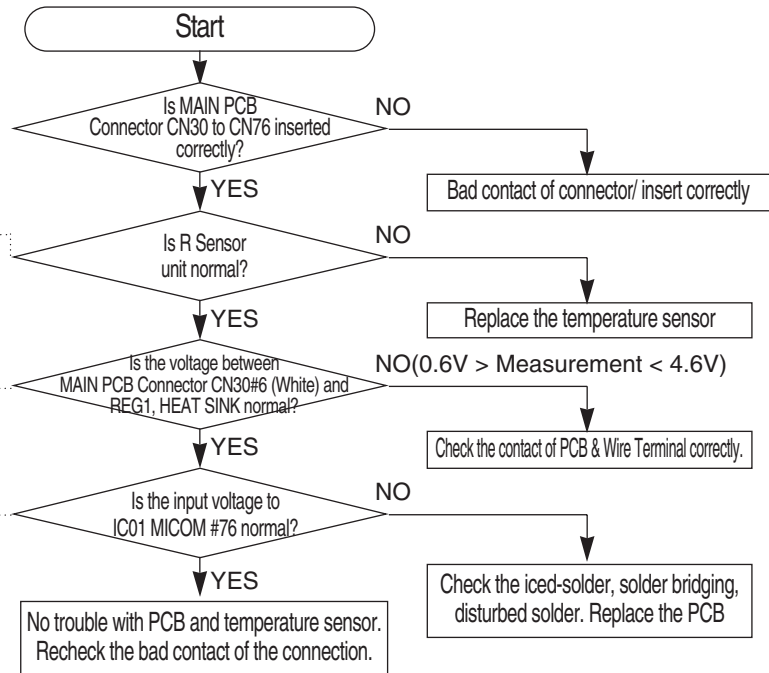
DATA1.
Temperature table

** Measuring point of resistance value according to Sensor **
R : CN30#6 ↔ CN76#1 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble

Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
R	Connector Cn30#6(White) to REG1 HEAT-SINK PCB common Ground Voltage measured between 4.6V ~ 0.6V.

Measuring voltage of IC01 MICOM #76, CN30-"6"(White) and REG1, HEAT SINK from PCB common Ground part are similar.
→ Check the measure on the SENSOR MARKING #3(R311) due to the SMD MICOM



☞ Checking method of R Sensor resistance
CN30#6(White) ↔ CN76#1(Gray) Compare the temperature table after the measure.



☞ Checking method of R Sensor voltage
- Measure the voltage of Sensor Check Point #3(IC01 MICOM #76) or CN30#6(White) ↔ REG1, HEAT SINK.
- Compare the temperature table after the measure.
Measuring voltage of CN30#6(White) ↔ REG1, HEAT SINK are below.



typical PCB Ground
REG1 HEAT-SINK



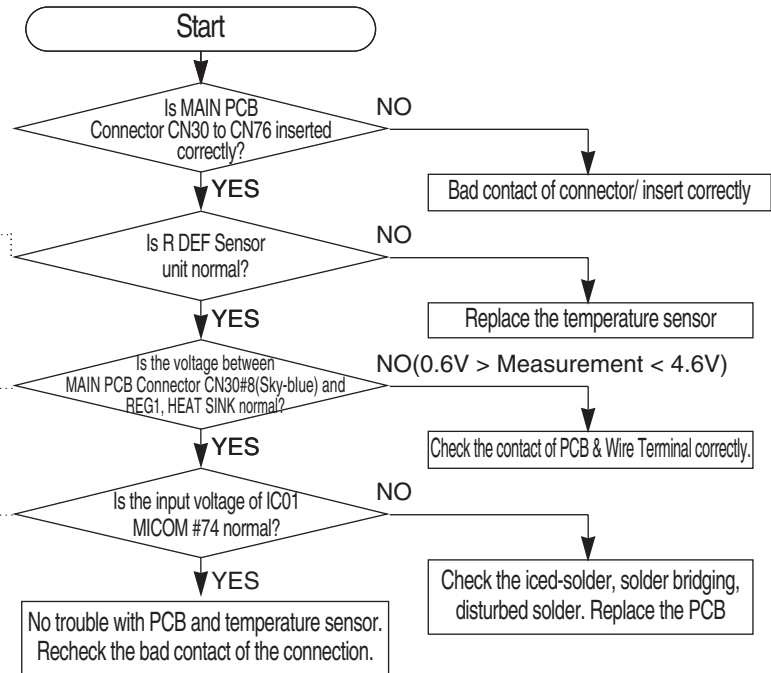
TROUBLESHOOTING

3) If R DEF Sensor has trouble

ERROR Code



DATA1. Temperature table	
** Measuring point of resistance value according to Sensor **	
R-DEF :	CN30#8 ↔ CN76#1 measuring resistance value
** 0 Ω : Short trouble / ∞ Ω : Open trouble	
Refer to circuit diagram in the manual	
Sensor MICOM/Connector Number	
R DEF	Connector CN30#8(Sky-blue) to REG1 HEAT-SINK PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	
Measuring voltage of IC01 MICOM #74, CN30-"8"(Sky-blue) and REG1, HEAT SINK from PCB typical Ground part are similar. → Check the measure on the SENSOR MARKING #5(R313) due to the SMD MICOM	



- ☞ Checking method of R Sensor resistance
CN30#7(Sky-blue) ↔ CN76#1(Gray)
- Compare the temperature table after the measure.



- ☞ Checking method of R DEF Sensor voltage
- Measure the voltage of Sensor Check Point #5(IC01 MICOM #74) or CN30#8(Sky-blue) ↔ REG1, HEAT SINK.
- Compare the temperature table after the measure. Measuring voltage of CN30#8(Sky-blue) ↔ REG1, HEAT SINK are below.



typical PCB Ground
REG1 HEAT-SINK



TROUBLESHOOTING

4) If Ambient Sensor has trouble

ERROR Code



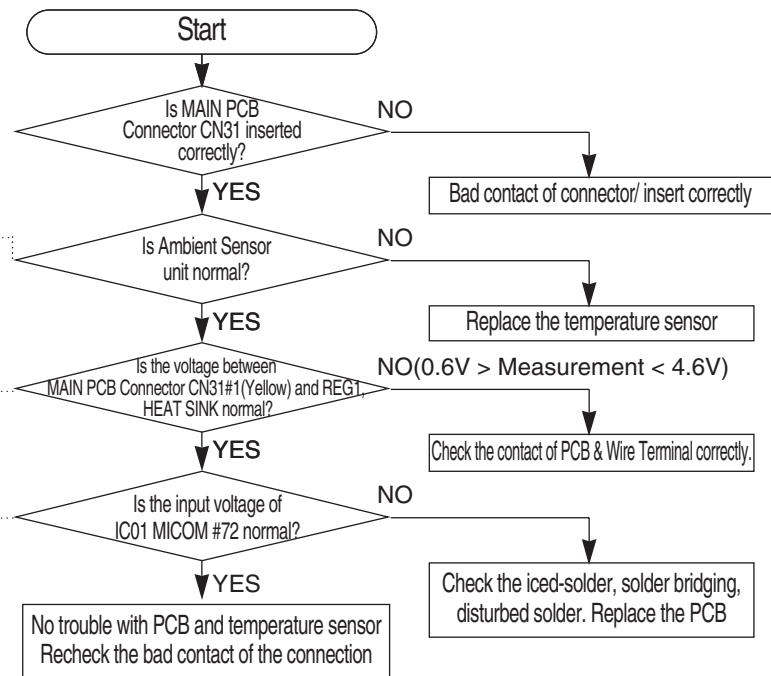
DATA1.
Temperature table

** Measuring point of resistance value according to Sensor **
 Ambient : CN31#1 ↔ #4 measuring resistance value
 ** Placed in the right top table of upper hinge.
 ** 0 Ω : Short trouble / ∞ Ω : Open trouble

Refer to circuit diagram in the manual

Sensor MICOM/Connector number	
Ambient	Connector Cn31#1(Yellow) to REG1 HEAT-SINK PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	

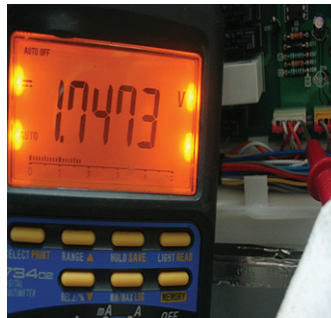
Measuring voltage of IC01 MICOM #72, CN31-"1"(Yellow) and REG1, HEAT SINK from PCB typical Ground part are similar.
 → Check the measure on the SENSOR MARKING #7(R307) due to the SMD MICOM



- ☞ Checking method of Ambient Sensor resistance
 CN31#1(Yellow) ↔ #4(Yellow)
 - Compare the temperature table after the measure



- ☞ Checking method of Ambient Sensor voltage
 - Measure the voltage of Sensor Check Point #7 (IC01 MICOM #72) or CN31#1(Yellow) ↔ REG1, HEAT SINK.
 - Compare the temperature table after the measure. Measuring voltage of CN31#1(Yellow) ↔ REG1, HEAT SINK are below.



typical PCB Ground
 REG1 HEAT-SINK



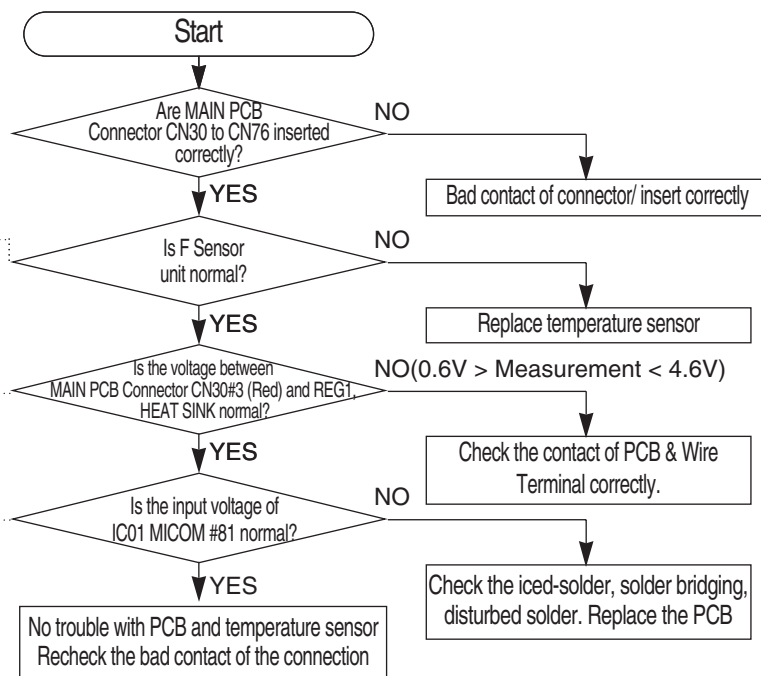
TROUBLESHOOTING

5) If F Sensor has trouble

ERROR Code



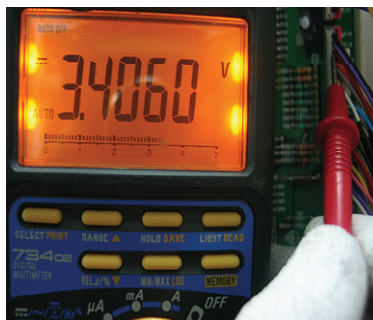
DATA1. Temperature table	
** Measuring point of resistance value according to Sensor ** F : CN30#3 ↔ CN76#1 measuring resistance value ** 0 Ω : Short trouble / ∞ Ω : Open trouble	
Refer to circuit diagram in the manual	
Sensor MICOM/Connector number	
F	Connector Cn30#3(Red) to REG1 HEAT-SINK PCB common Ground Voltage measured between 4.6V ~ 0.6V.
Measuring voltage of IC01 MICOM #81, CN30-"3"(Yellow) and REG1, HEAT SINK from PCB typical Ground part are similar. → Check the measure on the SENSOR MARKING #1(R309) due to the SMD MICOM	



- ☞ Checking method of F Sensor resistance
 CN30#3(Red) ↔ CN76#1(Gray)
 - Compare the temperature table after the measure



- ☞ Checking method of F Sensor voltage
 - Measure the voltage of Sensor Check Point #1 (IC01 MICOM #81) or CN30#3(Red) ↔ REG1, HEAT SINK.
 - Compare the temperature table after the measure. Measuring voltage of CN30#3(Red) ↔ REG1, HEAT SINK are below.



typical PCB Ground
 REG1 HEAT-SINK



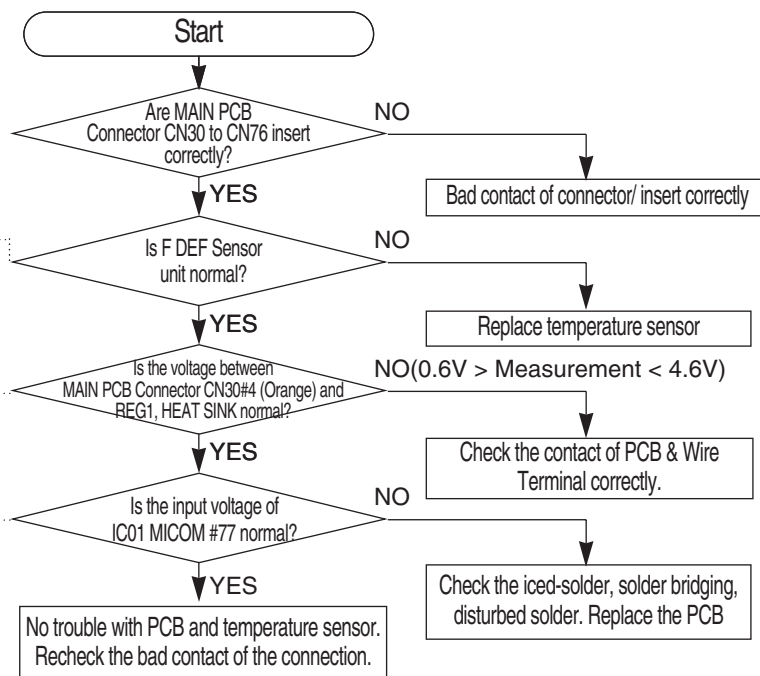
TROUBLESHOOTING

6) If F DEF Sensor has trouble

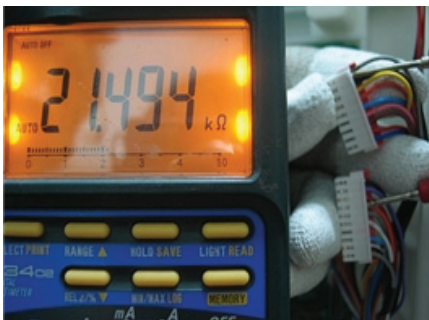
ERROR Code



DATA1.	Temperature table
** Measuring point of resistance value according to Sensor ** F-DEF : CN30#4 ↔ CN76#1 measuring resistance value ** 0 Ω : Short trouble / ∞ Ω : Open trouble Refer to circuit diagram in the manual	
Sensor MICOM/Connector number	
F DEF	Connector Cn30#4(Orange) to REG1 HEAT-SINK PCB common Ground Voltage measured between 4.6V ~ 0.6V.
Measuring voltage of IC01 MICOM #77, CN30-4(Orange) and REG1, HEAT SINK from PCB typical Ground part are similar. → Check the measure on the SENSOR MARKING #2(R310) due to the SMD MICOM	



- ☞ Checking method of F DEF Sensor resistance CN30#4(Orange) ↔ CN76#1(Gray)
- Compare the temperature table after the measure.



- ☞ Checking method of F DEF Sensor voltage
- Measure the voltage of Sensor Check Point #2(IC01 MICOM #77) on PCB or CN30#4(Orange) ↔ REG1, HEAT SINK
- Compare the temperature table after measurement. Measuring voltage of CN30#4(Orange) ↔ REG1, HEAT SINK are asbelow



typical PCB Ground
REG1 HEAT-SINK



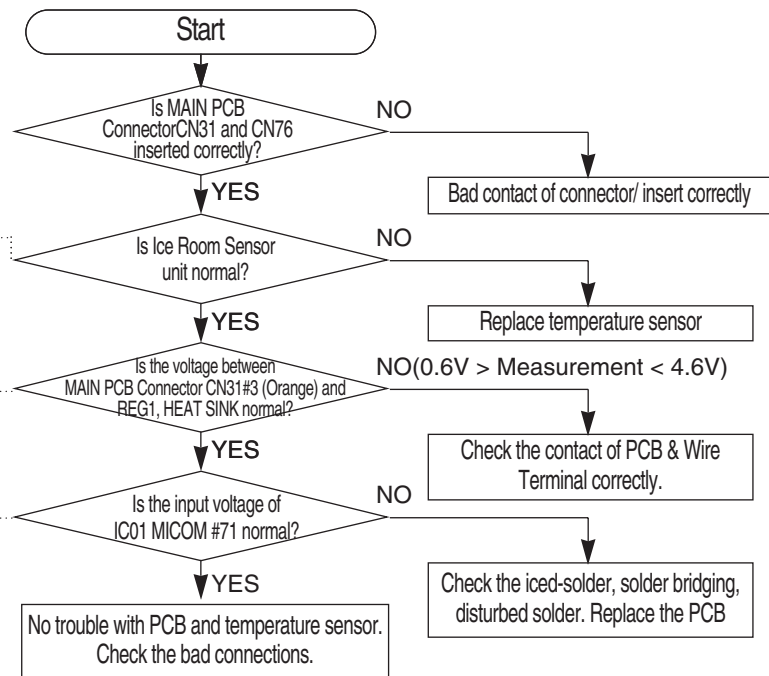
TROUBLESHOOTING

7) If Ice Room Sensor has trouble

ERROR Code



DATA1. Temperature table	
** Measuring point of resistance value according to Sensor ** Ambient : CN31#3 ↔ CN76#1 Measure the resistance value ** 0 Ω : Short trouble / ∞ Ω : Open trouble	
Refer to the circuit diagram in this manual	
Sensor MICOM/Connector number	
Ice Room	Connector Cn31#3(Orange) to REG1 HEAT-SINK PCB common Ground
Voltage measured between 4.6V ~ 0.6V.	
Measuring voltage of IC01 MICOM #77, CN30-"4"(Orange) and REG1, HEAT SINK from PCB typical Ground part are similar. → Check the measure on the SENSOR MARKING #8(R308) due to the SMD MICOM	



- ☞ Checking Method of Ice Room Sensor voltage CN31-"3"(Orange) ↔ CN76-"1" (Gray)
- Compare with the temperature table after measurement.



- ☞ Checking method of Ice Room Sensor voltage
- Measure the voltage of Sensor Check Point #8 (IC01 MICOM #71) on PCB or CN31#3(Orange) ↔ REG1, HEAT SINK
 - Compare the temperature table after measurement. Measuring voltage of CN31#3(Orange) ↔ REG1, HEAT SINK are as below



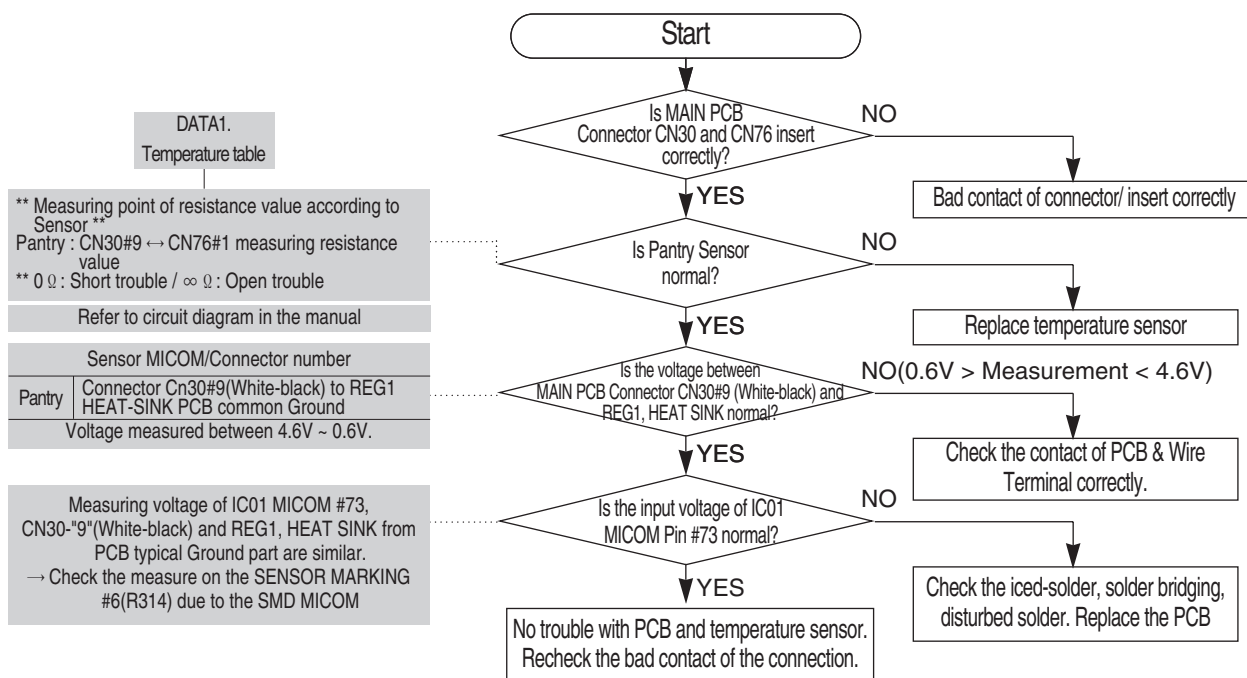
typical PCB Ground
REG1 HEAT-SINK



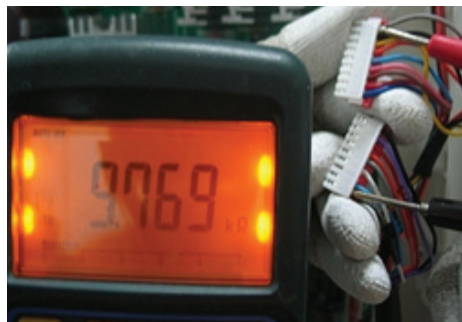
TROUBLESHOOTING

8) If Pantry Sensor has trouble

ERROR Code



- ☞ Checking method of Pantry Sensor resistance
CN30#9(White-black) ↔ CN76#1(Gray)
- Compare the temperature table after the measure



- ☞ Checking method of Pantry Sensor voltage
- Measure the voltage of Sensor Check Point #6(IC01 MICOM #73) on PCB or CN30#9(White-black) ↔ REG1, HEAT SINK
- Compare the temperature table after measurement. Measuring voltage of CN30#9(White-black) ↔ REG1, HEAT SINK are as below



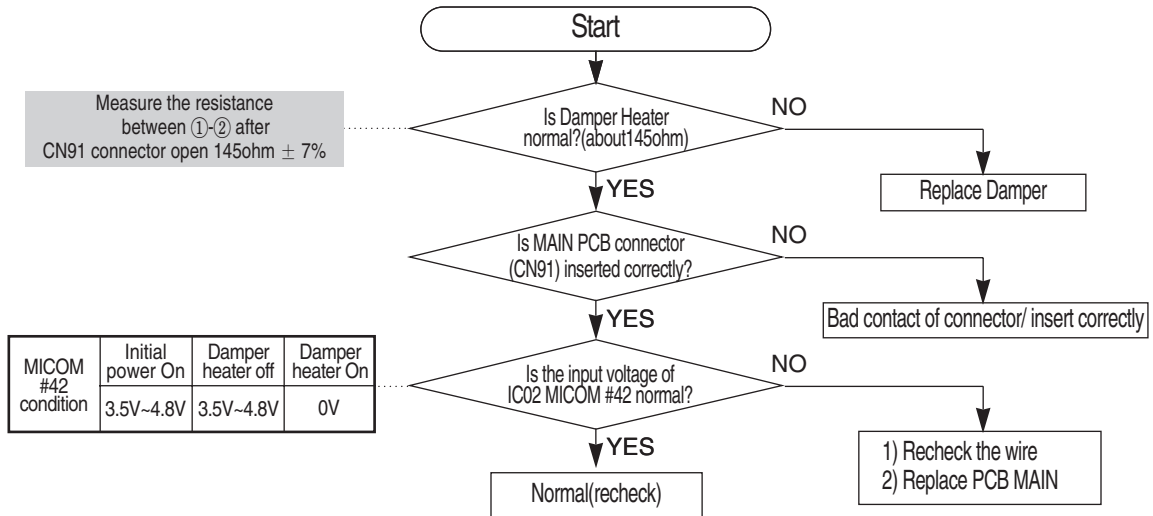
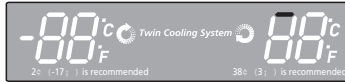
typical PCB Ground
REG1 HEAT-SINK



TROUBLESHOOTING

9) If Pantry Room Damper Heater has trouble

ERROR Code



④ Checking method of Pantry Room Damper resistance CN91#1(Black) \leftrightarrow #2(Brown)
 ** $\infty \Omega$: Open(wire disconnection, heater disconnection) trouble 0Ω : Short trouble

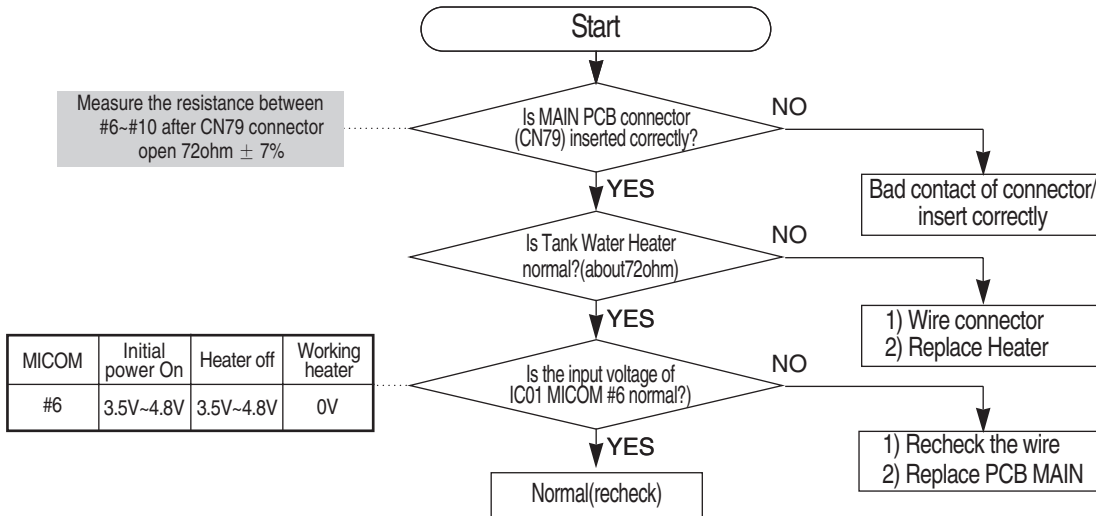


Heat	MICOM (IC01)	Initial Power On	Heater Off	Working Heater
Water tank	#6	3.5V ~ 4.8V	3.5V ~ 4.8V	0V
Ice Pipe	#3	3.5V ~ 4.8V	3.5V ~ 4.8V	0V

TROUBLESHOOTING

10) If Tank Water Heater has trouble

ERROR Code



☞ Checking method of Tank Water Heater resistance CN78#5(Black) ↔ #4(Brown)
 ** $\infty \Omega$: Open(wire disconnection, heater disconnection) trouble 0 Ω : Short trouble

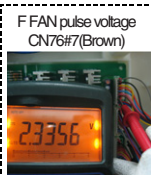
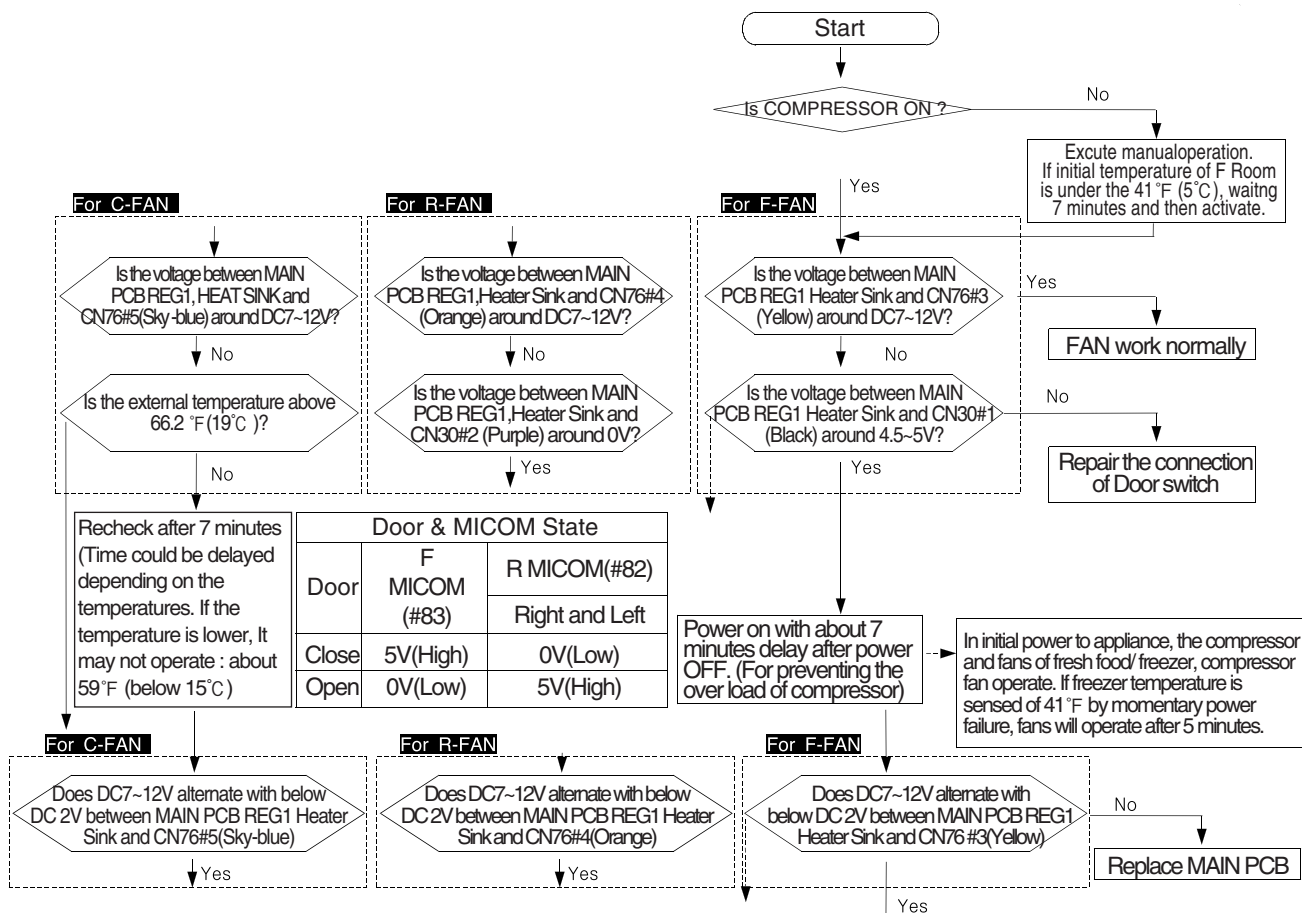
☞ Checking method of Tank Water Heater resistance CN79#6(Pink) ↔ #10(White)
 ** $\infty \Omega$: Open(wire disconnection, heater disconnection) trouble 0 Ω : Short trouble



TROUBLESHOOTING

4-2-2. If FAN does not operate(F, R, C - FAN)

- The refrigerator of this model has BLDC FAN motor. BLDC motor is driven by DC 7~12V.
- On the normal condition of COMP ON, it operates together with F-FAN motor.
If door is opened and closed once at a high ambient temperature, it will be operated after 1 minute delay.
Therefore, you are advised not to taken it for an error.
- If there is a trouble, you should select the self-diagnostic function to check the trouble before power off.



The voltage measured around 2~3V with multi-meter though the voltage is very weak because of pulse signal



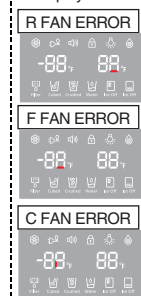
Reference

CN76-7(F),8(R),9(C) will generate the pulse signal when motor rotates. These signals will be inputted into MICOM. Unless signals are not inputted during motor operating, will be ON 10 seconds after fan Off. But if signals are not still entered, the above operation will restart four times more. If signals are not entered continuously, the motor will be restarted after 10 seconds. This function is effective when the normal operation of motor would be restrained by foreign matters such as ice.

Expected causes

- ① Check that if FAN-MOTOR has failure itself.
- ② Check that if wiring connection has bad contact.
- ③ Check the input of the fan motor rotation pulse when motor fan operates.

Display for checking the self-diagnostic function



Checking method of R,F,C FAN Motor voltage
The voltage between PCB typical Ground REG1 Heater Sink and
F FAN : CN76#3(Yellow) shall be less than DC 7~12V.
R FAN : CN76#4(Orange) shall be less than DC 7~12V.
C FAN : CN76#5(Sky-blue) shall be less than DC 7~12V.
Motor rpm could be changed by capability without previous.

Typical PCB Ground REG1 Heater Sink



1) F-FAN



2) R-FAN



3) C-FAN



TROUBLESHOOTING

4-2-3. If ICE Room Fan does not operate

- This refrigerator has BLDC FAN motor. BLDC motor is driven by DC7~12V.
- When COMP ON, normally operates with F-FAN motor.
- If there is any trouble, you should select the self-diagnostic function to check the trouble before power off.

- When pressing the ICE TEST S/W for a certain period of time (over 1.5sec), the function is accomplished. After beginning of TEST mode, Ice maker heater turns on for initial 2 minutes, if the ice making temperature is below 0°C.
- If it exceeds 0°C, Ice maker heater turns on for initial 30 seconds.
- After Ice maker heater turns on for 30 seconds, it turns off and then Ice maker motor turns on.
- As the Ice maker motor turns on, TEST MODE COUNT operates. (6 minutes count)

Condition

- Ambient temperature : 32°C/75%
- Notch : 2°F/38°F (-19.0°C/3.3°C)
- Initial full of ice bucket capacity : 794 g, 58ea

Ice Room control temperature	
Ice ON	8.6°F (-13°C)
Ice OFF	26.6°F (-3°C)

Reference

CN76 #6 will generate the pulse signal when motor rotates. These signals will be input into MICOM. Unless signals are not input during motor operating, will be ON 10seconds after fan OFF. But if signals are not still taken, the above operation will be retried four times more. If signals are not taken continuously, the motor will be restarted after 10 minutes. This function is against the case that motor movement would be restrained by foreign matters like ice.

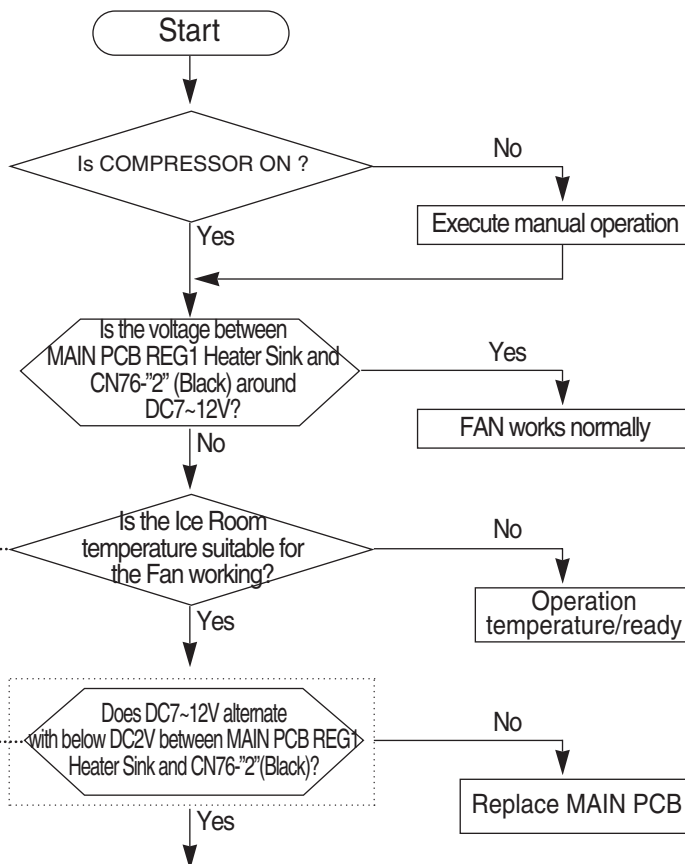
FAN pulse voltage
CN76-"6"(Pink) Typical PCB Ground
REG1 Heater Sink



The voltage is variable due to pulse signal but measured about 2~3V with the Multi-Meter.

Display for checking the self-diagnostic function

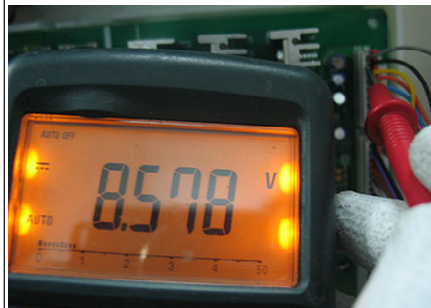
Ice Room FAN ERROR



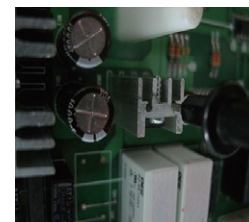
Checking method of Ice Room FAN Motor Voltage with the voltage between typical PCB Ground REG1 Heater Sink and Ice Room FAN ; CN76-"2"(Black) shall be less than DC 6~12V.

- Additional check if resistance values are different after measurement.

1) Ice Room - FAN



Typical PCB Ground
REG1 Heater Sink



TROUBLESHOOTING

4-2-4. If Ice Maker does not operate

1. Water is automatically supplied to the Ice Maker depending on temperature & time condition and Ice Maker Dispenses cubed or crushed ice.
2. Power is applied to the one end of wires. Be careful when disassembling and shall refer to its exploded diagram in any case.
3. Ice Maker operation shall be checked after pressing the Ice Maker testing switch.
(Freezer Ice Maker) It is not possible to check when the power is disengaged.
4. We recommend that TWO PEOPLE check the PCB and Ice Maker because they are located at front and rear side each.
5. Be careful! The Ice Maker Heater can cause personal injury like burn.
6. Ice maker could operate not only genuine rotate but also reverse rotate, so it is not out of order that reverse rotate.

Displays ERROR Code



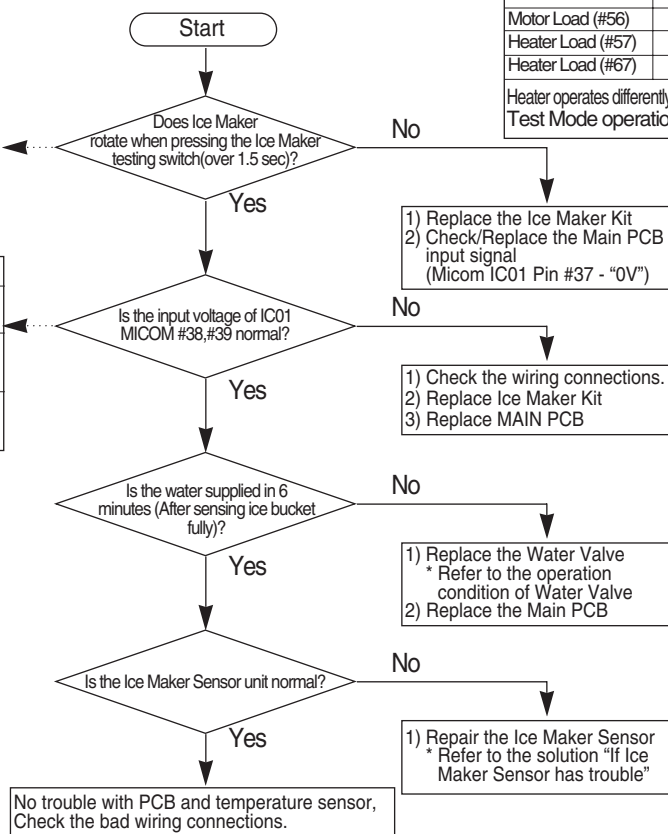
MICOM(IC02) Operation Status		
#37 (Test Switch)	Operation	Ready
	5V	0V

MICOM(IC01) Operation Status				
	Ready	Rotation	Before Complete	Returning
#39 (Blade Ice Scoop)	0V	4.9V	4.9V	0V
#38 (Guide Ice Full)	0V	0V	4.9V	0V

Operating Condition when motor rotates Operating Status of Micom(IC01)

	Ready	Operation
Motor Load (#56)	0V	5V
Heater Load (#57)	0V	5V
Heater Load (#67)	0V	5V

Heater operates differently according to the conditions.
Test Mode operation will be 30 sec.



Checking Method of ICE Maker Voltage

With typical PCB Ground REG1 Heater Sink and

- 1) Test Switch operation (press selected) : CN75-"5" (Black) shall be DC 0V.
- Test Switch ready ; CN75-"5" (Black) shall be less than DC 5V.

- 1) Test Switch operating
- 2) Test Switch ready



Checking Method of ICE Maker Voltage

With typical PCB Ground REG1 Heater Sink and

- 2) IC02 MICOM #39 voltage ; Ready(0V) → Rotate (4.9V) → Before complete(4.9V) → Return(0V)
* MICOM #39 voltage is same as Connector CN90-"7"(Purple)
- 3) IC02 MICOM #38 voltage ; Ready(0V) → Rotate (0V) → Before complete(4.9V) → Return(0V)
* MICOM #38 voltage is same as Connector CN90-"6"(Blue)

Check the ICE Maker Heater & Motor Resistance

- 1) Measuring the Ice Maker Heater resistance values

CN70#11(Gray) - #1(Black)



Resistance value : 91(364)Ohm ± 7%

- 2) Measuring the Ice Maker Motor resistance values

CW : 13P #11(White) and CN70#9(Red)
CCW : 13P #13(Pink) and CN70#9(Red)



CW/CCW Resistance value : 200KOhm ± 30%

TROUBLESHOOTING

4-2-5. If defrost does not operate (F,R DEF Heater)

- If defrost has trouble, select the self-diagnostic function to detect the error of defrost heater before Power Off. (Check the function with the self-diagnostic function)

R DEF ERROR



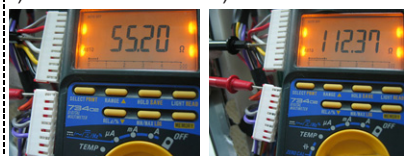
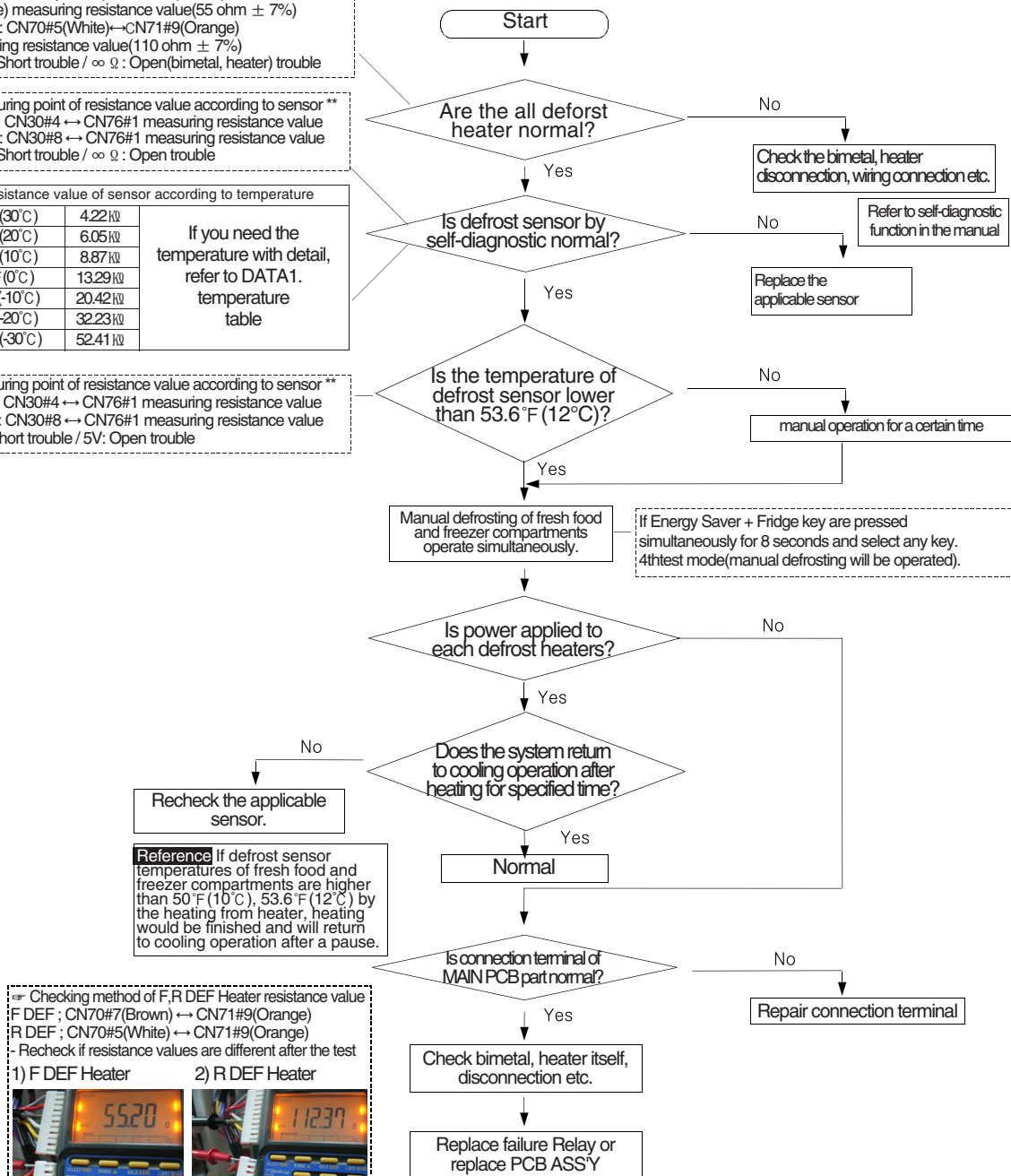
****Measuring point of resistance value according to heater****
 F-DEF(Ice Duct parallel) : CN70#7(Brown) ↔ CN71#9 (Orange) measuring resistance value(55 ohm ± 7%)
 R-DEF : CN70#5(White) ↔ CN71#9(Orange) measuring resistance value(110 ohm ± 7%)
**** 0 Ω : Short trouble / ∞ Ω : Open(bimetal, heater) trouble**

****Measuring point of resistance value according to sensor****
 F-DEF : CN30#4 ↔ CN76#1 measuring resistance value
 R-DEF : CN30#8 ↔ CN76#1 measuring resistance value
**** 0 Ω : Short trouble / ∞ Ω : Open trouble**

Resistance value of sensor according to temperature		If you need the temperature with detail, refer to DATA1. temperature table
86°F(30°C)	4.22kΩ	
68°F(20°C)	6.05kΩ	
50°F(10°C)	8.87kΩ	
32°F(0°C)	13.29kΩ	
14°F(-10°C)	20.42kΩ	
-4°F(-20°C)	32.23kΩ	
-22°F(-30°C)	52.41kΩ	

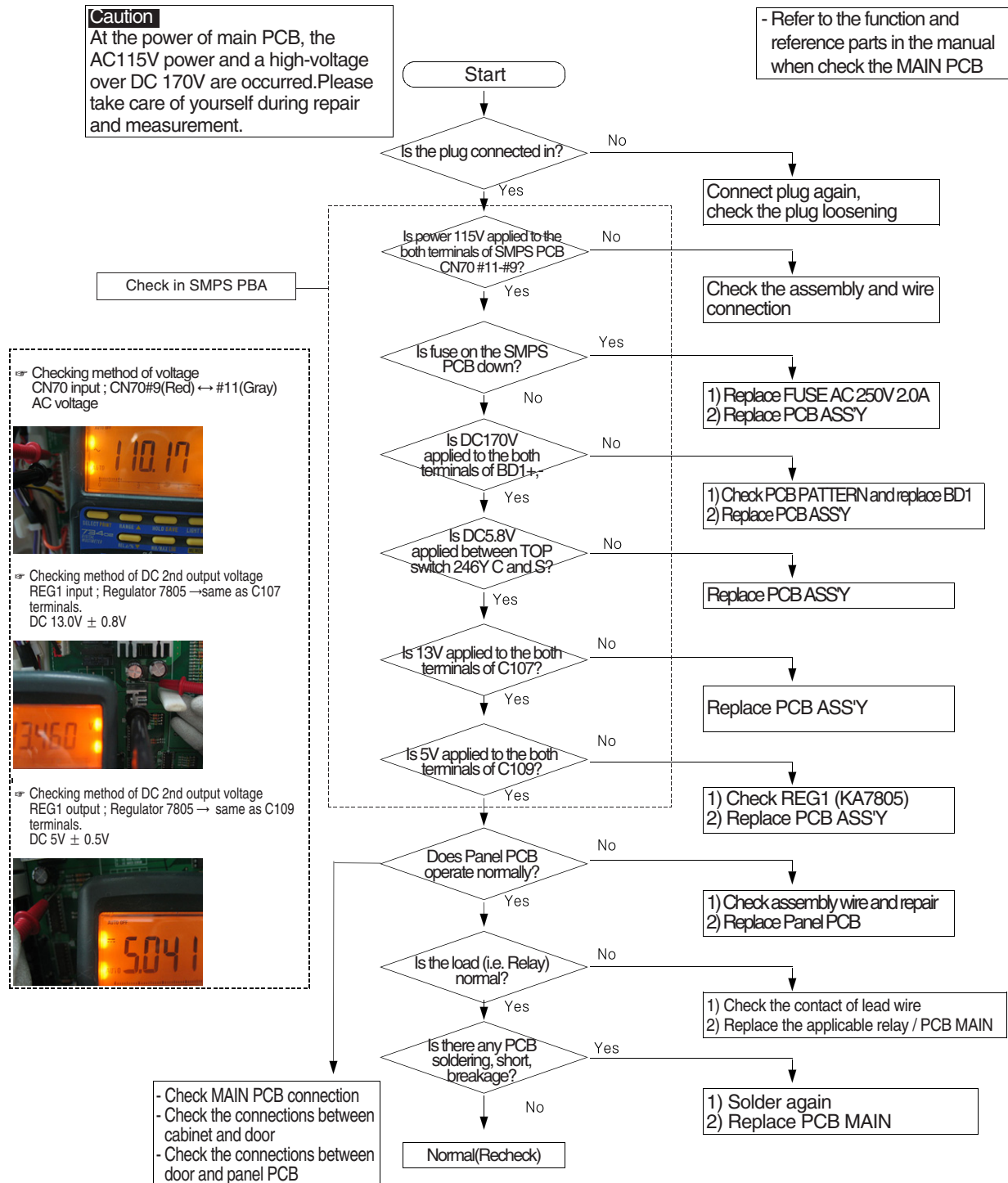
****Measuring point of resistance value according to sensor****
 F-DEF : CN30#4 ↔ CN76#1 measuring resistance value
 R-DEF : CN30#8 ↔ CN76#1 measuring resistance value
**** 0V : Short trouble / 5V : Open trouble**

F DEF ERROR



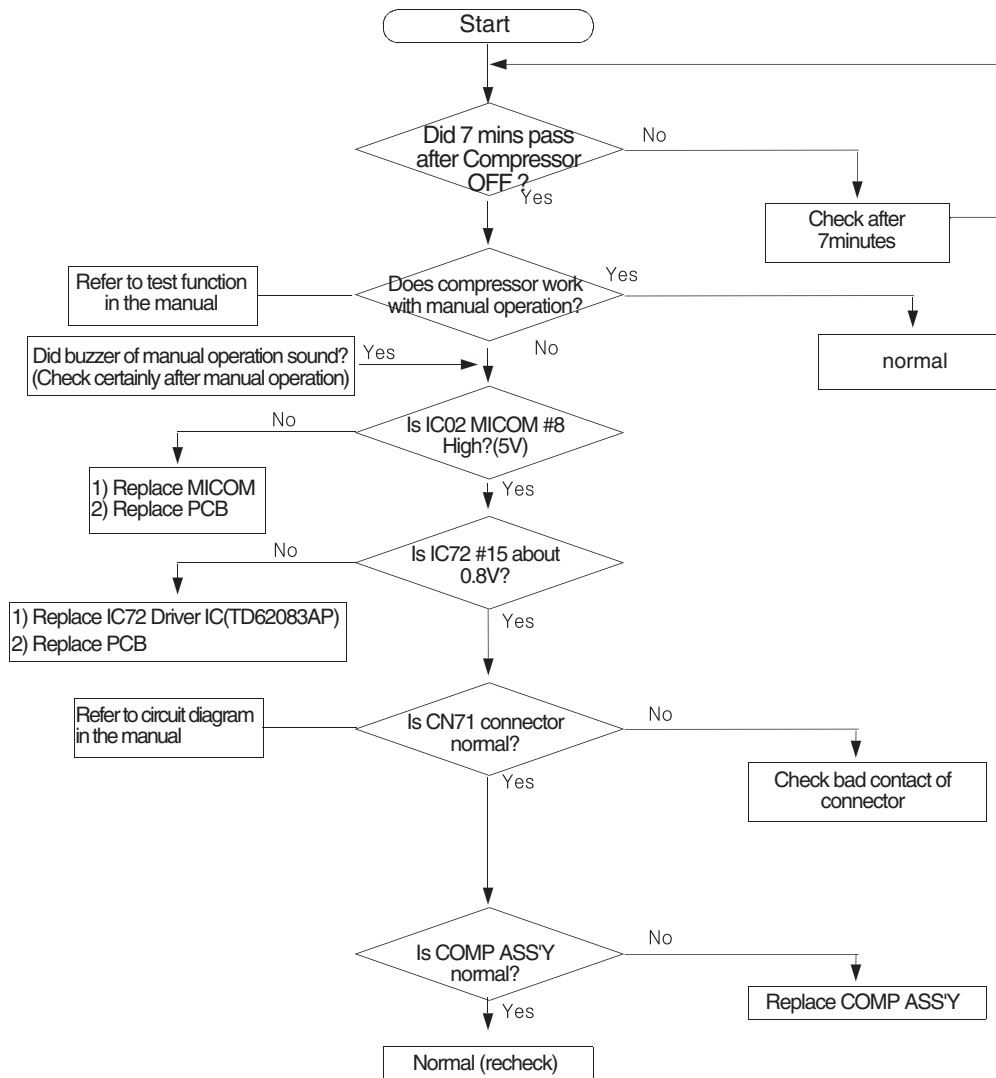
TROUBLESHOOTING

4-2-6. If Power is not supplied



TROUBLESHOOTING

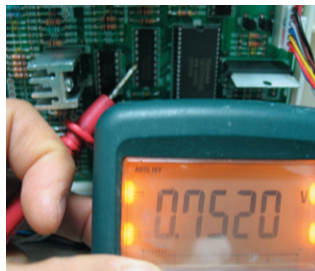
4-2-7. If compressor does not operate



☞ Checking method of voltage PCB typical Ground CN1#3(Black) and
1) IC02 MICOM #8 ; voltage High(5V \pm 0.5V)
IC02 MICOM #8, COMP operating



☞ Checking method of voltage PCB typical Ground CN1#3(Black) and
1) IC72 #15 : Voltage Low(0V)



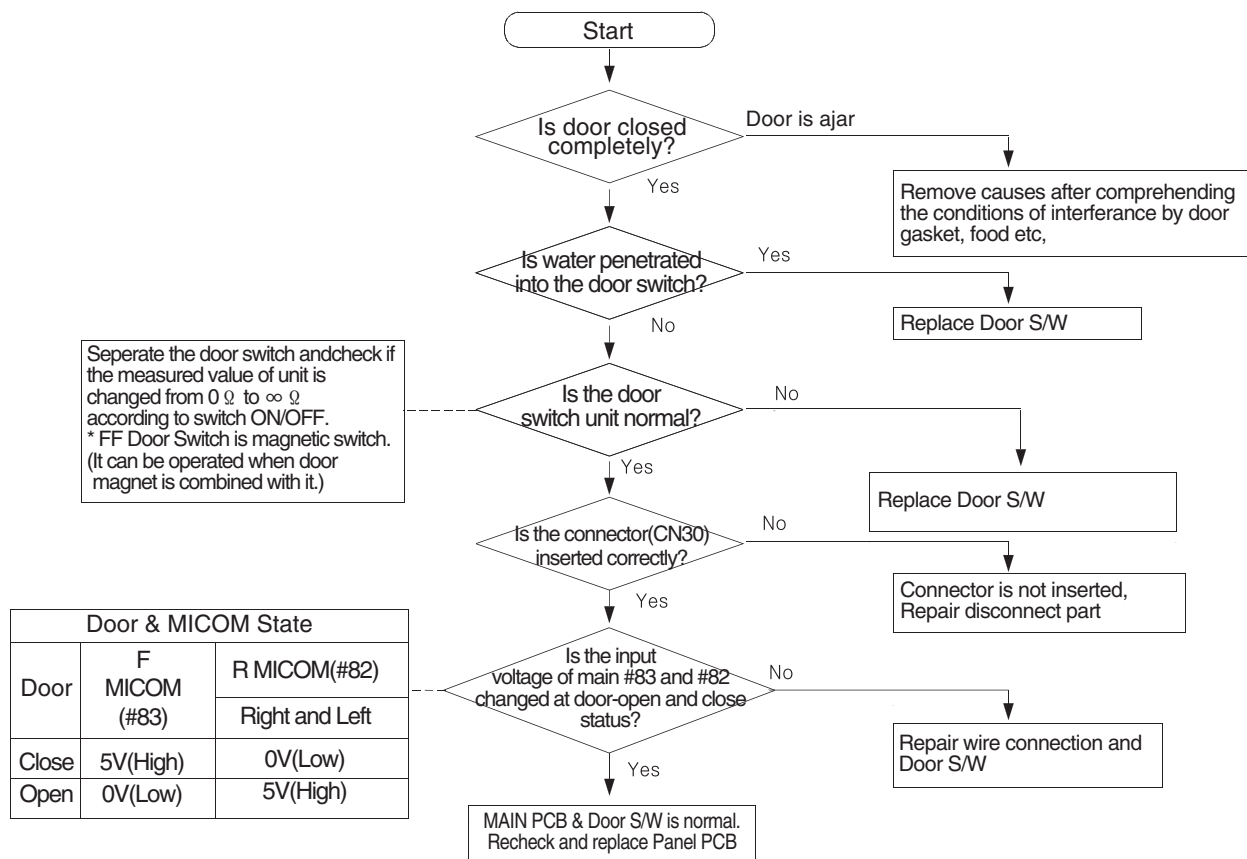
typical PCB Ground
CN1#3(Black)



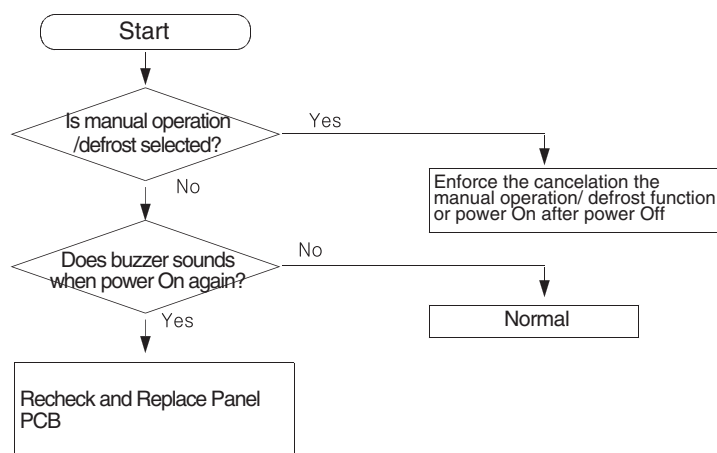
TROUBLESHOOTING

4-2-8. When alarm sound continuous without stop(related with buzzer sound)

① If 'ding-dong'sound continuously



② If 'beep-beep' sounds continuously



TROUBLESHOOTING

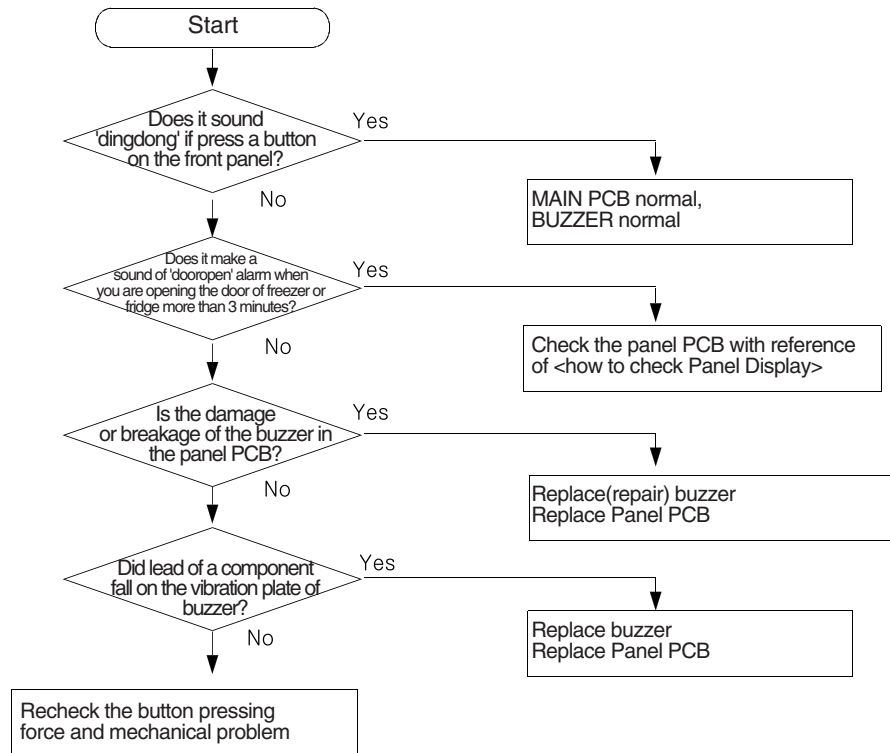
③ If buzzer does not sound

Buzzer is installed on the panel PCB in this model.

If buzzer does not sound when button is pressed, manual operation is started and door is opened, should separate panel PCB and check the breakage of buzzer and bad soldering.

It is very hard to repair the panel PCB because it consists of SMD assemblies.

It is recommended to replace assembly PCB when the failure associated with panel is occurred except the minor error such as switch pressing error, surface peeling off and so on.

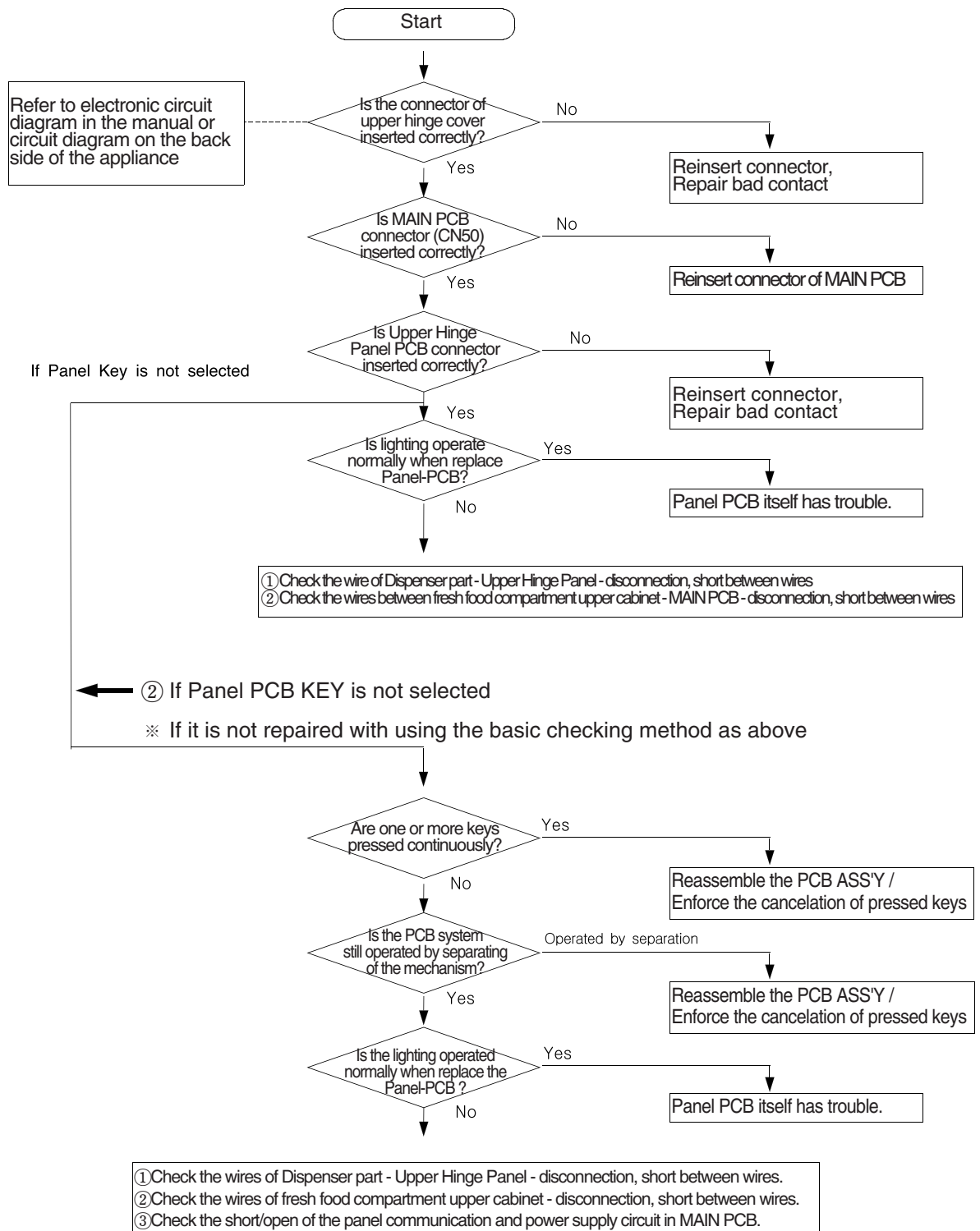


TROUBLESHOOTING

4-2-9. If Panel PCB does not work normally

① When lighting of Panel PCB is disabled or only some LED Lamp are disabled

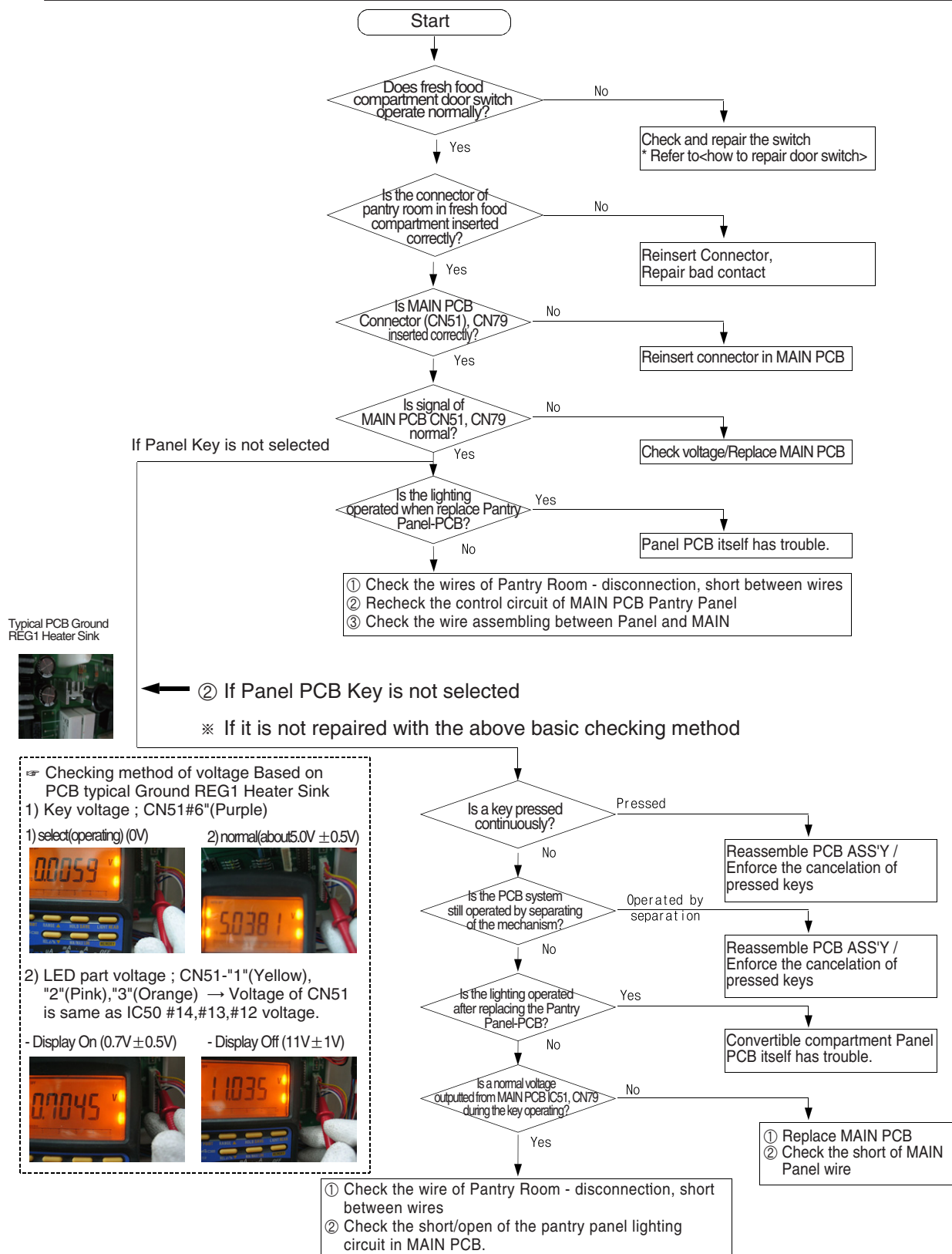
Be careful to repair because display of this model is installed in the MICOM of internal PCB. It is recommend to replace PCB MAIN after checking except specified solder touch.



TROUBLESHOOTING

4-2-10. If Pantry Panel PCB is not working normally

You should check the display after door opening because the display of this model operates only when the fresh food compartment door is opened.



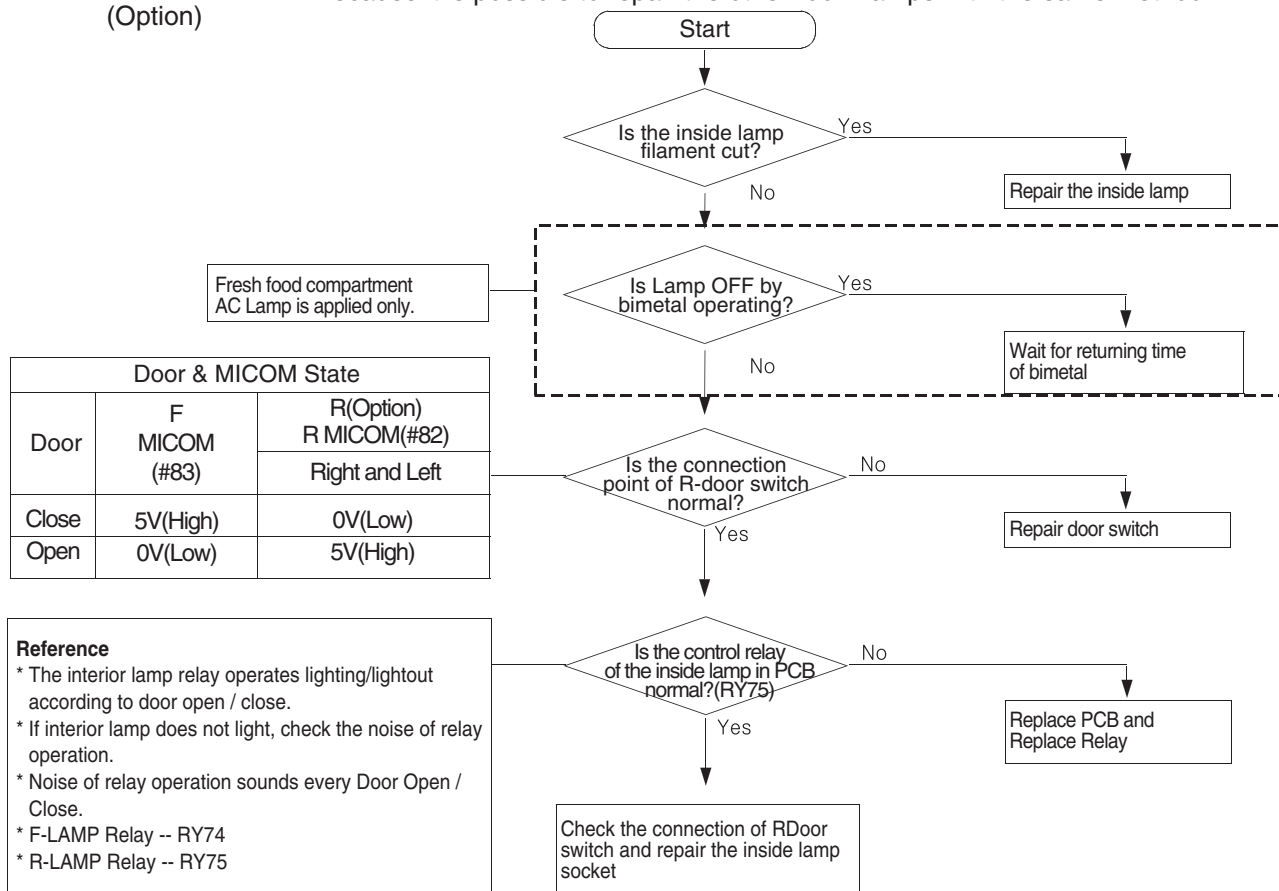
TROUBLESHOOTING

4-2-11. When refrigerator ROOM Lamp does not light up

1. When you replace the lamp of freezer, please power OFF to avoid an electric shock.
2. Please keep in mind you could get burnt by the excessive heating of an incandescent light bulb.
3. Bimetal is installed in the refrigerator LAMP. Check that if LAMP may be turned OFF by bimetal.

1) AC Lamp (Option)

※ We only explain about Fresh Food compartment in this page.
Because it is possible to repair the other room lamps with the same method.



Reference

If the door is opened, the contact of door switch will be opened and MICOM will get applied 5V to finally sense Open. If 5V has been sensed over three minutes afterwards, Door-Open alarm will sound 'Ding-Dong' for 10 seconds in a one minutes cycle. For that reason, if the door switch has failure, the refrigerator can make a "Ding-Dong" sound with oneminute cycle. Please note the step for its service.

☞ When measure lamp resistance to the Wire
→ Resistance can be changed by Lamp input voltage.
(Actual measurement is below, it can be changed by performance)

Wire color changed from the following picture



☞ Fresh food compartment lamp
CN70#9(Red) ↔ CN71#1 (Blue);
100ohm ± 5%
Lamp ; 60W + 60W

☞ Freezer compartment lamp
CN70#9(Red) ↔ CN71#3 (Gray);
150ohm ± 5%
Lamp ; 60W

☞ Checking method of Door Switch voltage

- Measuring voltage of CN30#2(Purple), CN30#1(black) and REG1, HEAT SINK from PCB typical Ground part
→ See the R DOOR Switch at the following picture.

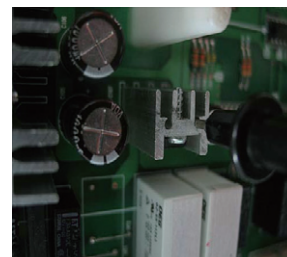
CLOSE



OPEN



Typical PCB Ground REG1 Heater Sink



TROUBLESHOOTING

4-2-12. If ICE Water is not supplied

1. Please shut the water supplying prior to repair.
2. Power is applied to the one end of wires. Be careful when disassembling not to get an electric shock.

Typical PCB Ground REG1 Heater Sink



Checking method of voltage Based on PCB typical Ground REG1 Heater Sink

1) Check the voltage of IC73#4(same voltage as IC01 #54)

- ICE Water valve operating (about $5V \pm 0.5V$)



Based on PCB typical Ground REG1 Heater Sink
2) IC73 #15 voltage

- ICE Water valve Waiting (about $13V \pm 0.8V$)

- ICE Water valve operating (about $0.7V \pm 0.5V$)



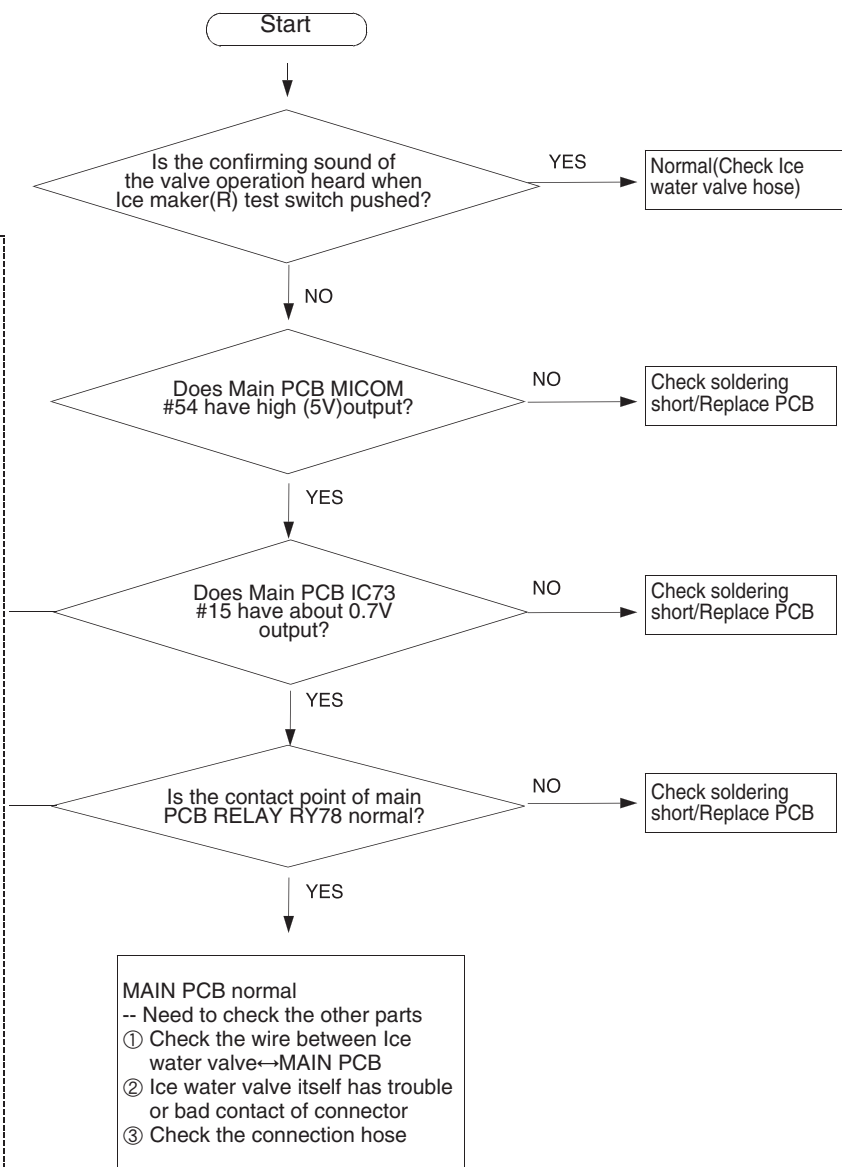
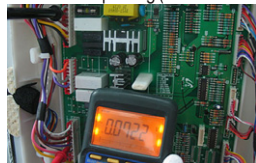
3) Check the voltage of Fridge Ice Water Valve operating(AC voltage)

=> For checking the Relay RY78 operating.
CN73 and CN74 combined and use same connector(13p)
CN70#9(Red) ↔ 13P#7(Purple)

- ICE Water valve waiting (about AC 0V)

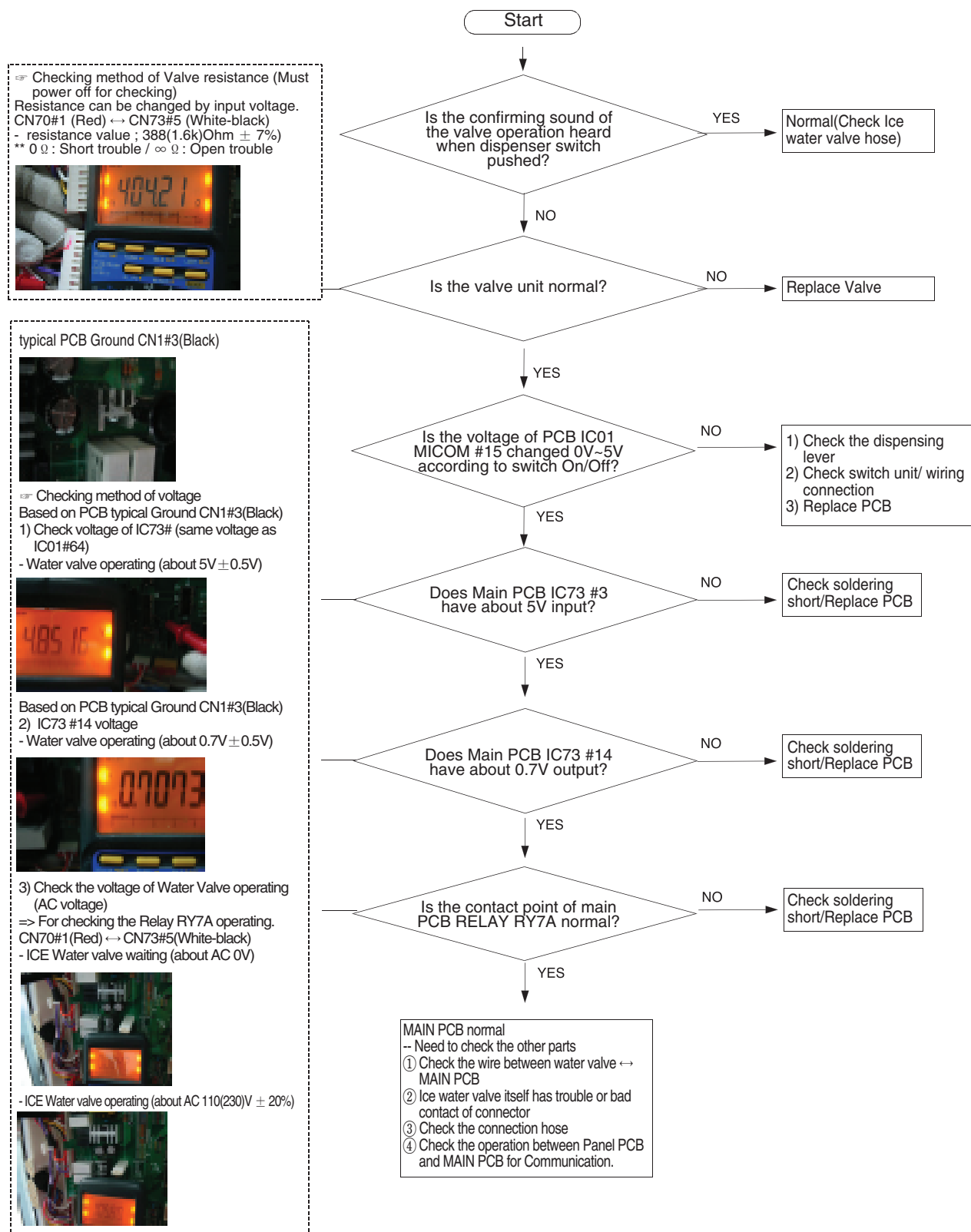


- ICE Water valve operating (about AC $115V \pm 20\%$)



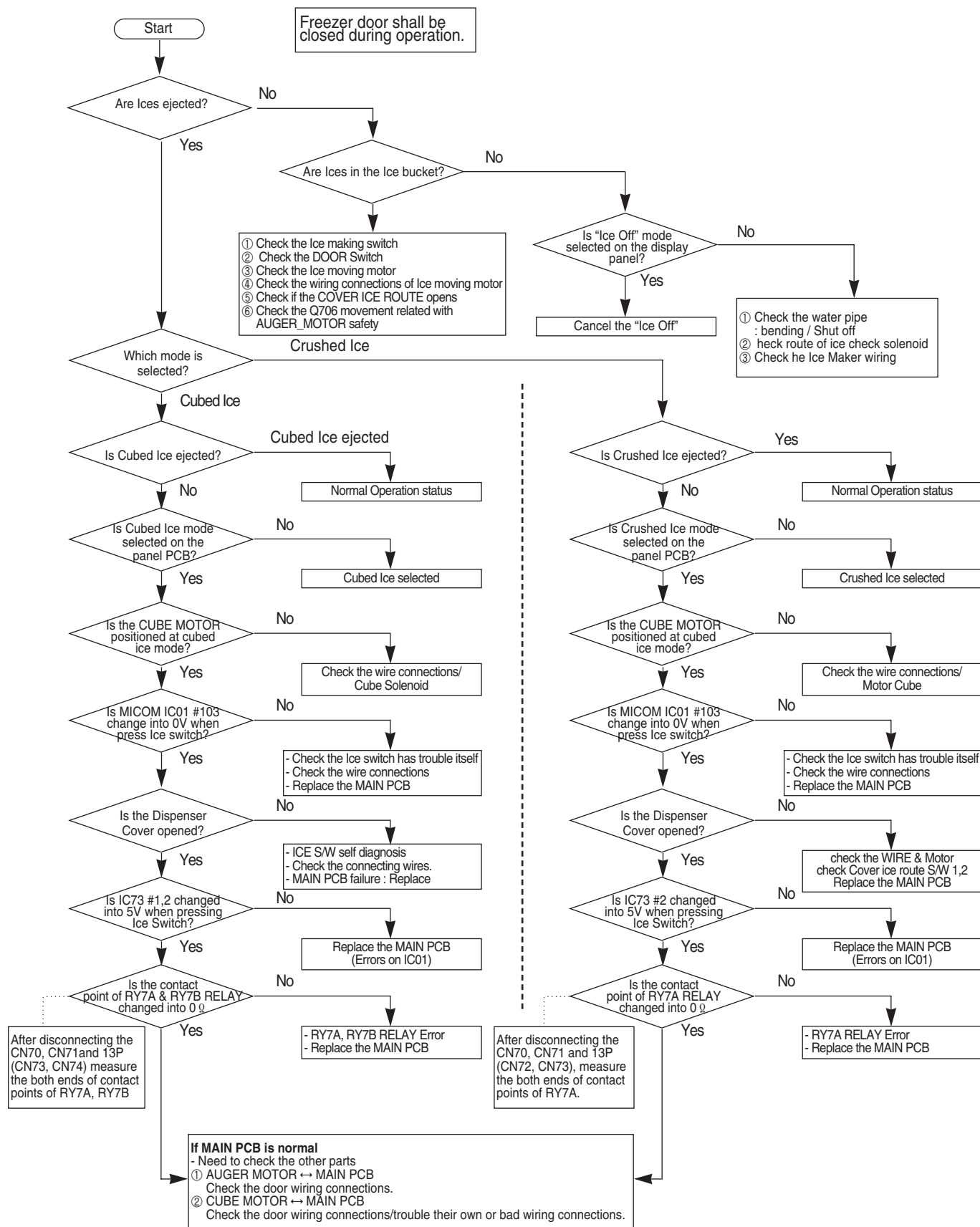
TROUBLESHOOTING

4-2-13. If Water is not supplied



TROUBLESHOOTING

4-2-14. If Cubed or Crushed Ice is not supplied



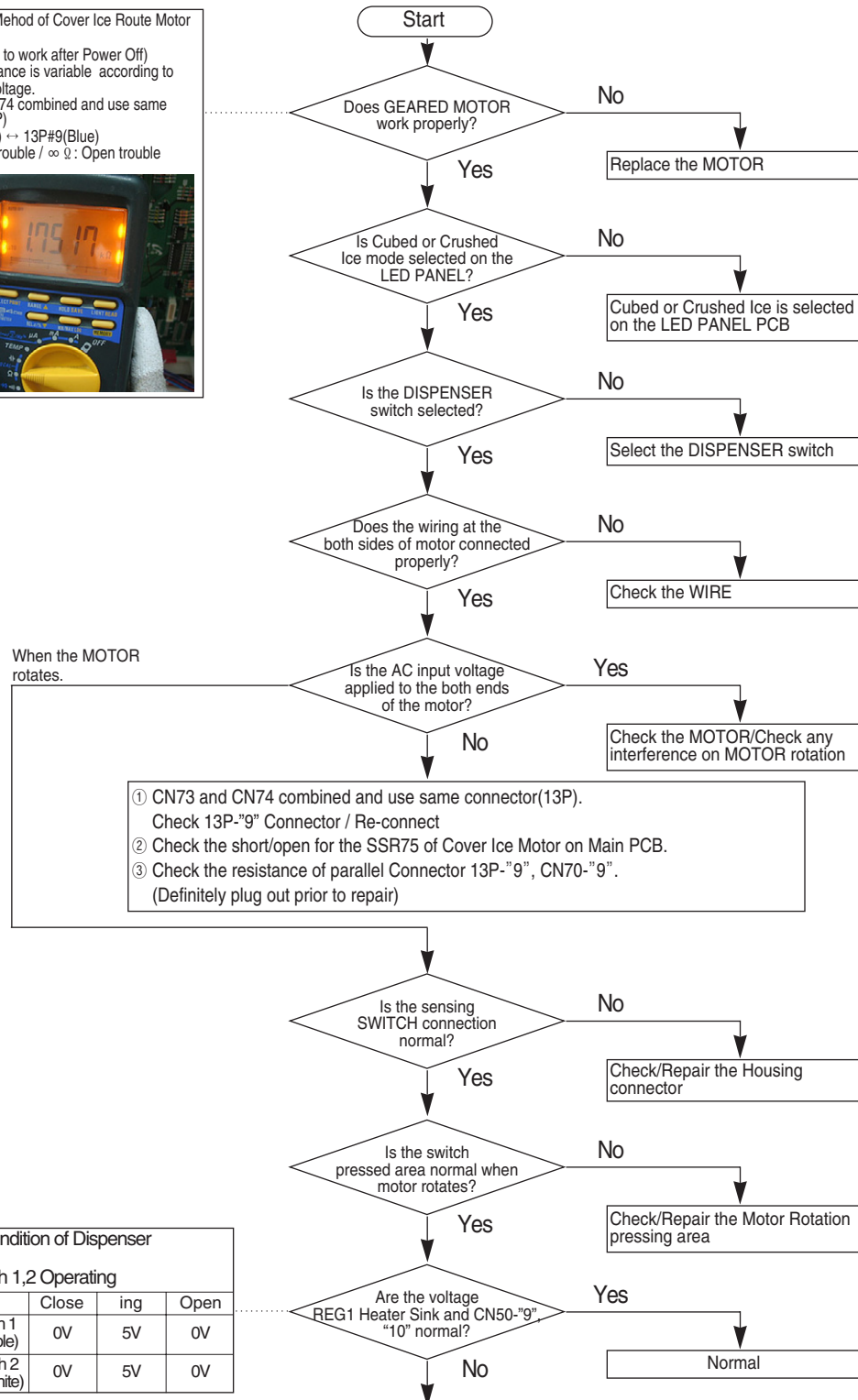
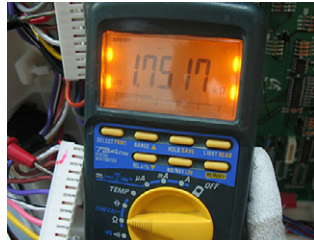
TROUBLESHOOTING

4-2-15. If Cover Ice Route Motor(Geard Motor) is not working normally

Caution

1. When replacing the Cover Ice Motor, pull out the plug to avoid an electric shock.
2. Be careful! When disassemble the Cover Ice Motor, spring can jumped out and may cause personal injury.
3. Motor will rotate continuously when the Motor Switch is not sensed.

☞ Checking Method of Cover Ice Route Motor Resistance
(Make sure to work after Power Off)
The Resistance is variable according to the input voltage.
CN73 and CN74 combined and use same connector(13P)
CN70#9(RED) ↔ 13P#9(Blue)
** 0Ω : Short trouble / ∞Ω : Open trouble



Operating Condition of Dispenser			
Open/Close			
CN50 - Switch 1,2 Operating			
	Close	ing	Open
Ice Route Switch 1 CN50 - "9" (Purple)	0V	5V	0V
Ice Route Switch 2 CN50 - "10" (White)	0V	5V	0V

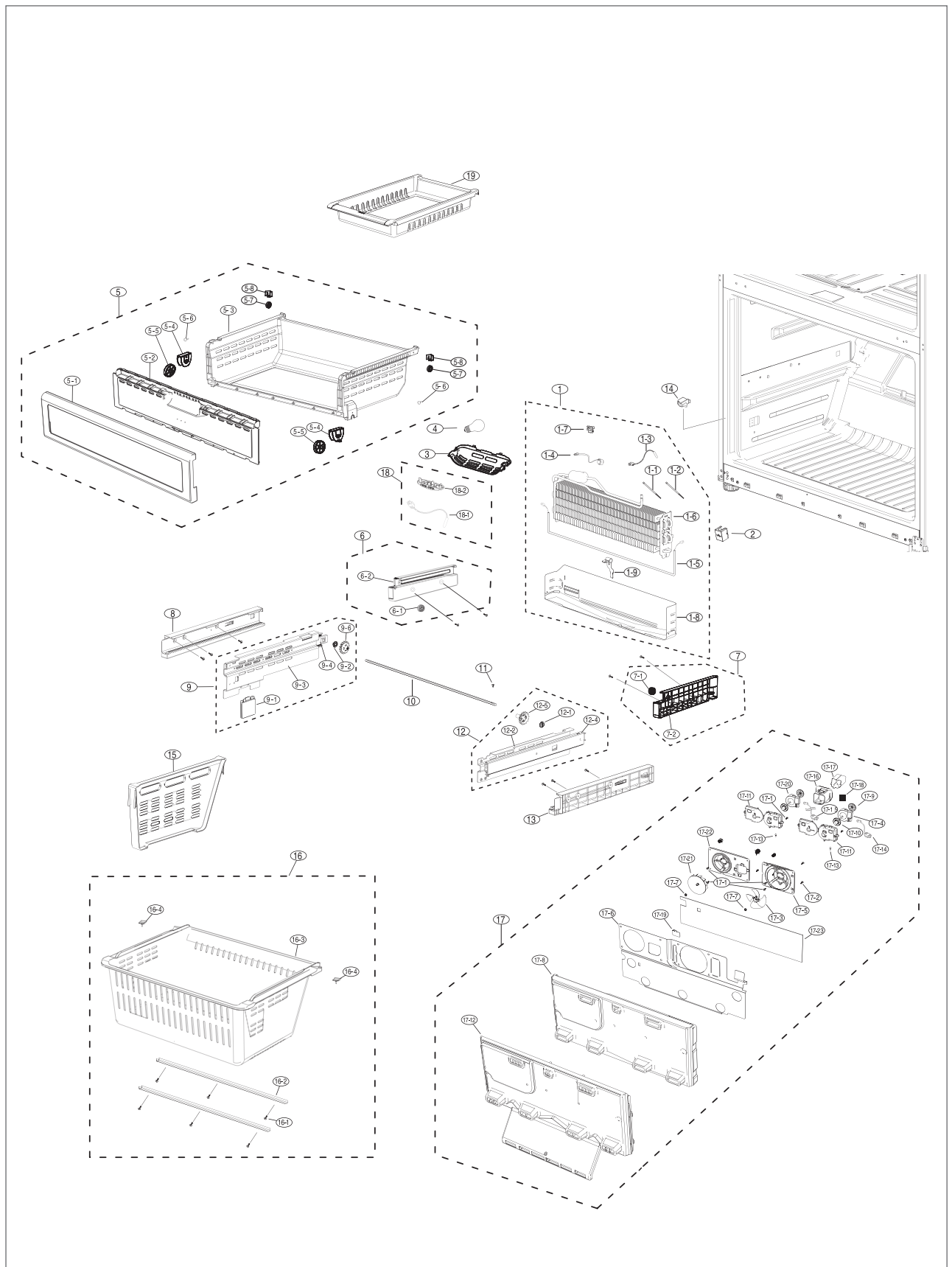
- ① Main PCB - Check the wire OPEN/SHORT between the Cover Ice Motor Rotation sensing switches.
- ② Check the Short of Cover Ice Motor Control Circuit SSR75 in the MAIN PCB.
- ③ Replace the MAIN PCB or the Dispenser Cover Motor.

5 . EXPLODED VIEW& PARTS LIST

5-1) FREEZER	84
5-2) REFRIGERATOR	87
5-3) CABINET	93
5-4) DISASSEMBLY OF FREEZE DOOR	97
5-5) DISASSEMBLY OF REFRIGERATOR DOOR LEFT	100
5-6) DISASSEMBLY OF REFRIGERATOR DOOR RIGHT	103

EXPLODED VIEW & PARTS LIST

5-1) Freezer



EXPLODED VIEW & PARTS LIST

■ Parts List of Freezer

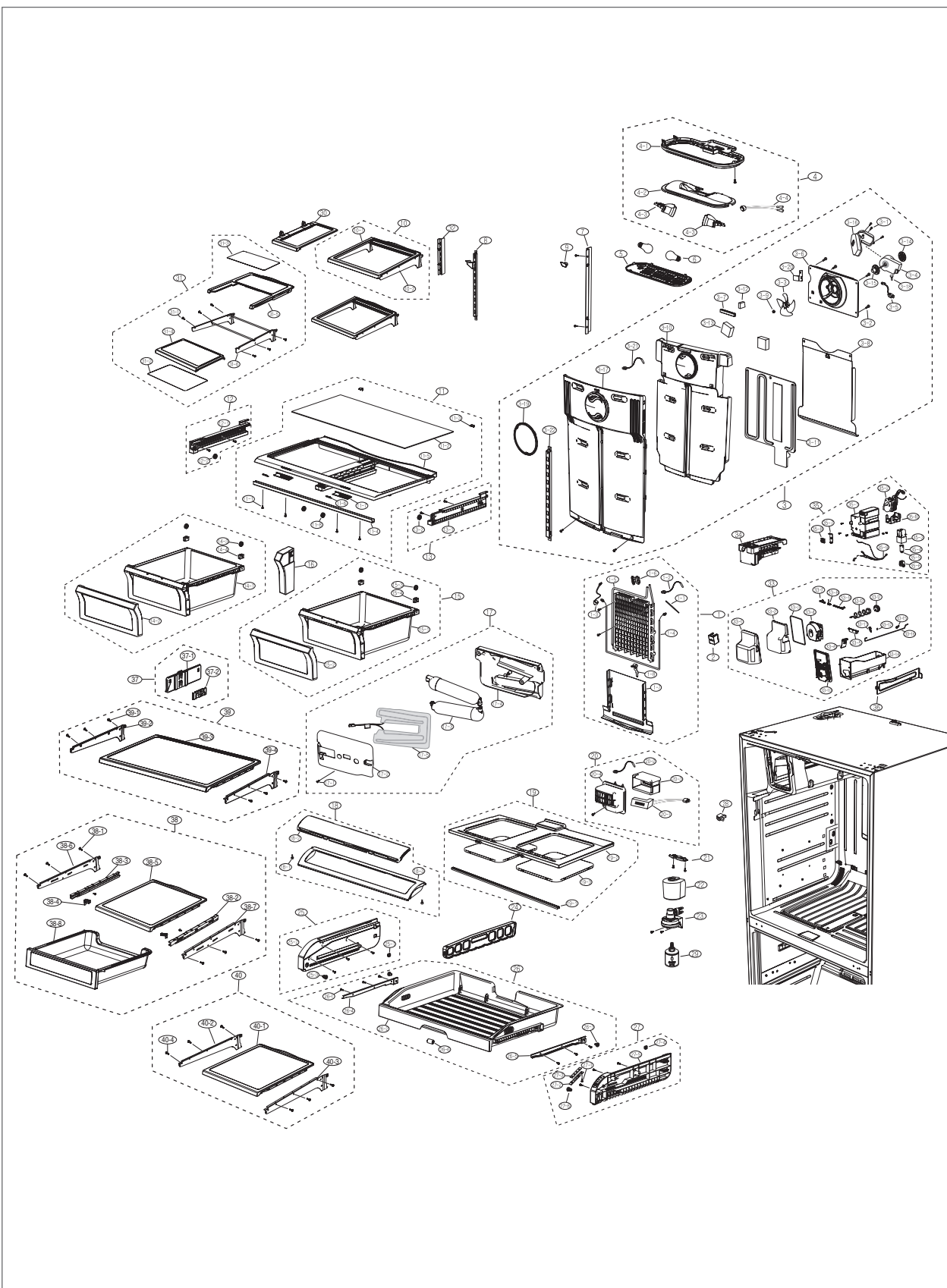
NO	CODE-NO	PART NAME	SPEC	QUAN TITY	SGEC CODE	REMARK
1	DA96-00515B	ASSY EVAP FRE	AW-PJT(265,636)115V,240W	1	DA96-00460A	
1-1	6501-000123	CABLE TIE	DACT-140,W3.6,L146,NTR,NYLON66	3	same as SEM	
1-2	DA32-00006Q	SENSOR TEMP-F-DEF	502AT,08AW-PJT,5V,F DEF Sensor,YEL,500MM	1	same as SEM	
1-3	DA47-00243B	THERMO BIMETAL-PROTECTOR	AW-PJT(F),BT-121-M,PW-5M1N,100 ㉔	1	same as SEM	
1-4	DA47-00244A	HEATER-METAL SHEATH	AW-PJT,240W,115V,1 ㉔,F-ROOM, Sealed Connector	1	same as SEM	
1-5	DA59-00382A	EVAP FRE	AW-PJT(265,266)	1	DA59-00358A	
1-6	DA61-04799A	FIXER-SENSOR EVAP	AW-PJT,PP,NATURAL	1	DA61-02901A	
1-7	DA61-03644A	PLATE-EVAP HEATER	AW-PJT,GALVA,T0.3	1	DA61-04149A	
2	DA63-04629A	COVER-FIXER HOUSING V	AW-PJT,GALVA,	1	DA63-02902B	
3	DA63-04606A	COVER-LAMP FRE	AW-PJT,PC,TRANSPARENCY	1	DA63-04296A	
4	4713-001223	LAMP-INCANDESCENT	120V,500mA,60W,47x84mm	1	same as SEM	
5	DA97-05037C	ASSY-SUPPORT ICE MAKER	AW-PJT	1	same as SEM	
5-1	DA59-00294A	ICE MAKER-ASSY	NTGN,DC12V	1	same as SEM	
5-2	DA60-10132A	SCREW-TAPPING	PH,+PI3,L15,PASS,STS430,2S	1	same as SEM	
5-3	DA61-00954B	GUIDE-ICE FULL	AW,ABS,NTR	1	same as SEM	
5-4	DA61-01800A	FIXER-SENSOR(ICE MAKER)	AD,URETHANE	1	same as SEM	
5-5	DA61-03213B	SUPPORT-ICE MAKER	AW-PJT,ABS / SR-0340M,T2.5,112,280,WHITE	1	same as SEM	
5-6	DA63-02183A	COVER-SENSOR	AD,PP,T1.0,WHITE	1	same as SEM	
5-7	DA63-02284B	TRAY ICE	AD,PP,NTR,BJ73SLW180	1	same as SEM	
6	DA63-04582A	COVER-ICE MAKER	AW,265,HIPS,COOL WHITE	1	DA63-03613A	
7	DA97-06992A	ASSY CASE-ICE CUBE	AW-SEM	1	DA97-04845A	
7-1	DA61-04757A	CASE-ICE CUBE	AW,PP,COOL WHITE	1	DA61-03189A	
7-2	DA67-02115A	SCOOP ICE	AW-SEM,PP,COOL WHITE	1	DA67-01231A	
8	DA97-07040A	ASSY TRAY-FRE UPP	AW-PJT(265,266)	1	DA97-06259A	
8-1	DA63-04625A	COVER-TRAY FRE UPP A	AW-PJT,HIPS,COOL WHITE	1	DA63-04115A	
8-2	DA63-04620A	COVER-TRAY FRE UPP B	AW,GPPS,NATURAL	1	DA63-03436A	
8-3	DA63-04638A	TRAY FRE-UPP	AW-PJT(265,266),HIPS,COOL WHITE	1	DA63-04113A	
8-4	DA61-04813A	FIXER-ROLLER TRAY FRE UPP	AW-PJT,NY-66,NATURAL	2	DA61-04154A	
8-5	DA66-00639A	ROLLER-TRAY FRE UPP	POM,NATURAL	2	DA66-00554A	
8-6	DA63-40167A	GROMMET-COVER CHIL	SILICON,WHITE	2	same as SEM	
8-7	DA61-04804A	ROLLER-FRE	POM,NATURAL	2	DA66-10104A	
8-8	DA61-04805A	FIXER-ROLLER	NY-66A,NATURAL	2	DA71-20145A	
9	DA97-07022A	ASSY RAIL-SLIDE UPP L	AW-PJT	1	DA97-06083A	
9-1	DA61-04804A	ROLLER-FRE	AW-PJT,NY-66,NATURAL	1	DA66-10104A	
9-2	DA61-04811A	RAIL-SLIDE UPP L	AW-PJT,ABS,COOL WHITE	1	DA61-04108A	
10	DA97-07023A	ASSY RAIL-SLIDE UPP R	AW-PJT	1	DA97-06084A	
10-1	DA61-04804A	ROLLER-FRE	AW-PJT,NY-66,NATURAL	1	DA66-10104A	
10-2	DA61-04812A	RAIL-SLIDE UPP R	AW-PJT,ABS,COOL WHITE	1	DA61-04109A	
11	DA63-04604A	COVER-RAIL LOW L	AW-PJT,ABS,COOL WHITE	1	DA63-03414A	
12	DA97-07005A	ASSY RAIL-SLIDE LOW L	AW-PJT	1	DA97-04836A	
12-1	DA34-00049A	SWITCH PRESSURE	AW-PJT,COOL WHITE	1	DA34-00047A	
12-2	DA61-04801A	FIXER-GEAR	AW-PJT,POM,NATURAL	1	DA61-03154A	
12-3	DA61-03158A	RAIL-SLIDE LOW L	AW-PJT,STS430	1	same as SEM	
12-4	DA66-00636A	GEAR-L	AW-PJT,POM,NATURAL	1	DA66-00436A	
13	DA66-00437A	SHAFT-GEAR	AW-PJT,SM25C	1	same as SEM	
14	DA67-02138A	CAP-HINGE HOLE	AW-PJT,ABS,BLACK	1	DA67-00859C	
15	DA97-07004A	ASSY RAIL-SLIDE LOW R	AW-PJT	1	DA97-04835A	
15-1	DA61-04801A	FIXER-GEAR	AW-PJT,POM,NATURAL	1	DA61-03154A	
15-2	DA61-03333A	RAIL-SLIDE LOW R	AW-PJT,STS430	1	same as SEM	
15-3	DA66-00635A	GEAR-R	AW-PJT,POM,NATURAL	1	DA66-00435A	
16	DA63-04605A	COVER-RAIL LOW R	AW-PJT,ABS,COOL WHITE	1	DA63-03415A	
17	DA97-07024A	ASSY TRAY-DRAWER BOX	AW-PJT	1	DA97-06258A	

■ Parts List of Freezer

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EXPLODED VIEW & PARTS LIST

5-2) Refrigerator



EXPLODED VIEW & PARTS LIST

■ Parts List of Refrigerator

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	SGEC CODE	REMARK
1	DA96-00516B	ASSY EVAP REF	AW-PJT,115V	1	DA96-00461A	
1-1	6501-000123	CABLE TIE	DACT-140,W3.6,L146,NTR,NYLON66	4	same as SEM	
1-2	DA32-00006S	SENSOR TEMP-R-DEF	AW-PJT,-40~110℃,5V,R-DEF-SENSOR,YEL,400MM	1	same as SEM	
1-3	DA47-00243C	THERMO BIMETAL-PROTECTOR	BT-121-M,PW-5M1N,125/250V,10/5A,100㎖	1	same as SEM	
1-4	DA47-00244B	HEATER-METAL SHEATH	AW-PJT,120W,115V,2.0,R-ROOM,Sealed Connector	1	same as SEM	
1-5	DA59-00381A	EVAP REF	AW-PJT	1	DA59-00357B	
1-6	DA61-04800A	FIXER-SENSOR	AW-PJT,PP,NATURAL	1	DA61-03683A	
1-7	DA61-04815A	PLATE-DRAIN REF	AW-PJT,GALVA,T0.3	1	DA61-04148A	
1-8	DA61-03644A	PLATE-EVAP HEATER	AW-PJT,AL,T0.7	1	same as SEM	
2	DA63-04629A	COVER-FIXER HOUSING V	AW-PJT,GALVA,T0.3	1	DA63-02902B	
3	DA97-07190D	ASSY COVER-EVAP REF	AW-SEM(08)	1	DA97-06197A	
3-1	6002-000213	SCREW-TAPPING	TH,+,M4,L12,ZPC(WHT),SWRCH18A	3	same as SEM	
3-2	6002-000215	SCREW-TAPPING	TH,+,M4.0,L16,ZPC(WHT),SWRCH18A	4	same as SEM	
3-3	DA31-00230A	FAN-AX100W4CC-T1	AW-SEM,ABS	1	DA31-00124A	
3-4	DA31-00146H	MOTOR BLDC	DC12V,150mA,2.1W	1	DA31-00146C	
3-5	DA39-00060K	ASSY-HARNESS MOTOR	AW-PJT,R-Fan/ F-Fan	1	same as SEM	
3-6	DA61-04849A	CASE-MOTOR REF	AW-SEM,PP,NATURAL	1	DA61-03181A	
3-7	DA61-03182A	GUIDE-INS EVAP REF	AW-PJT,ABS,NTR	1	same as SEM	
3-8	DA61-04854A	PLATE-INS EVAP REF	AW-SEM,GALVALUME,T0.3	1	DA61-03186A	
3-9	DA61-20128A	SPRING ETC-FAN	STS304,PI7.8,OD1.0,FD	1	same as SEM	
3-10	DA62-02055A	INSULATION-EVAP REF	AW-SEM,FOAM-PS	1	DA62-01760A	
3-11	DA62-02053A	INSULATION-EVAP REAR	AW-SEM,FOAM-PS	1	DA62-01382A	
3-12	DA62-02058A	INSULATION-EVAP SUB	AW-SEM,FOAM-PS	1	DA62-01383A	
3-13	DA62-02050A	INSULATION-EVAP DUCT	AW-SEM,FOAM-PS	2	DA62-01423A	
3-14	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,ID6.5,OD42,BLACK,BLDC,H20	1	same as SEM	
3-15	DA63-01808A	GROMMET-MOTOR,FRONT	A-TOP,NBR,ID6.5,OD42,BLACK,BLDC,H20	1	same as SEM	
3-16	DA63-04651A	COVER MOTOR-BLDC	AW-SEM,PP,NATURAL	1	DA63-01809A	
3-17	DA63-04653A	COVER-EVAP REF	AW-SEM,PP,COOL WHITE	1	DA63-04139A	
3-18	DA63-40167A	GROMMET-COVER CHIL	SILICON,WHITE	1	same as SEM	
3-19	DA64-02065A	TRIM-COVER EVAP REF	AW-PJT,ABS	1	same as SEM	
3-20	DA61-04856A	PLATE-HOUSING REF	AW-PJT,GALVALUME,T0.3	1	DA61-03599A	
3-21	DA32-10105X	SENSOR TEMP	502AT,AW-PJT,-40~110℃,5V,F DEF Sensor	1	same as SEM	
4	DA97-07008A	ASSY CASE LAMP-REF	AW-SEM	1	DA97-04842E	
4-1	DA61-04797A	CASE-LAMP REF	AW-SEM,ABS,COOL WHITE	1	DA61-03163A	
4-2	DA61-04818A	PLATE-LAMP REF	AW-SEM,SBHG1,T0.4	1	DA61-03169A	
4-3	DA47-40001D	LAMP HOLDER-ASSY	E26,250V,660W,TE5006F	2	same as SEM	
4-4	DA47-00243D	THERMO BIMETAL-PROTECTOR	BT-121-M,PW-5M1N,10/5A,100㎖	1	same as SEM	
5	DA63-04608A	COVER-LAMP REF	AW-SEM,PC,NATURAL	1	DA63-03773A	
6	4713-001223	LAMP-INCANDESCENT	120V,500mA,60W,47x84mm	2	same as SEM	
7	DA61-04781A	ANGLE-SHELF SIDE R	AW-SEM,SECC1,T2.0,COOL WHITE	2	DA61-03180A	
8	DA61-04847B	ANGLE-SHELF REF MID	AW-SEM,SECC1,T2.0,COOL WHITE	1	DA61-03179A	
9	DA67-02130A	CAP-ANGLE	AW-SEM,HIPS,COOL WHITE	1	DA67-01688A	
10	DA97-07051A	ASSY SHELF-GLASS REF FIX	AW-SEM	4	DA97-04850A	
10-1	6002-001397	SCREW-TAPPING	TH,+,B,M4,L8,ZPC(WHT),SWRCH18A,HD6.5,HT2	6	same as SEM	
10-2	DA67-01606A	SHELF-GLASS REF FIX	AW,PP,INSERT	1	same as SEM	
10-3	DA67-02133A	SHELF-HANGER REF L	AW-SEM,SECC1,WHITE	1	DA67-01608A	
10-4	DA67-02132A	SHELF-HANGER REF R	AW-SEM,SECC1,WHITE	1	DA67-01609A	
11	DA97-07019A	ASSY COVER-VEG REF	AW-SEM	1	DA97-05382A	
11-1	6002-000213	SCREW-TAPPING	TH,+,M4,L12,ZPC(WHT),SWRCH18A	4	same as SEM	
11-2	DA01-00400B	GLASS-COVER VEG	756*343,T3.2,1° PRINT	1	same as SEM	
11-3	DA61-04809A	FIXER-COVER VEG	AW-SEM,TALC PP,COOL WHITE	2	DA61-03166A	
11-4	DA61-04823A	REINF-COVER VEG	AW-SEM,SH1,T2.0,BLACK	1	DA61-03173A	

EXPLODED VIEW & PARTS LIST

■ Parts List of Refrigerator

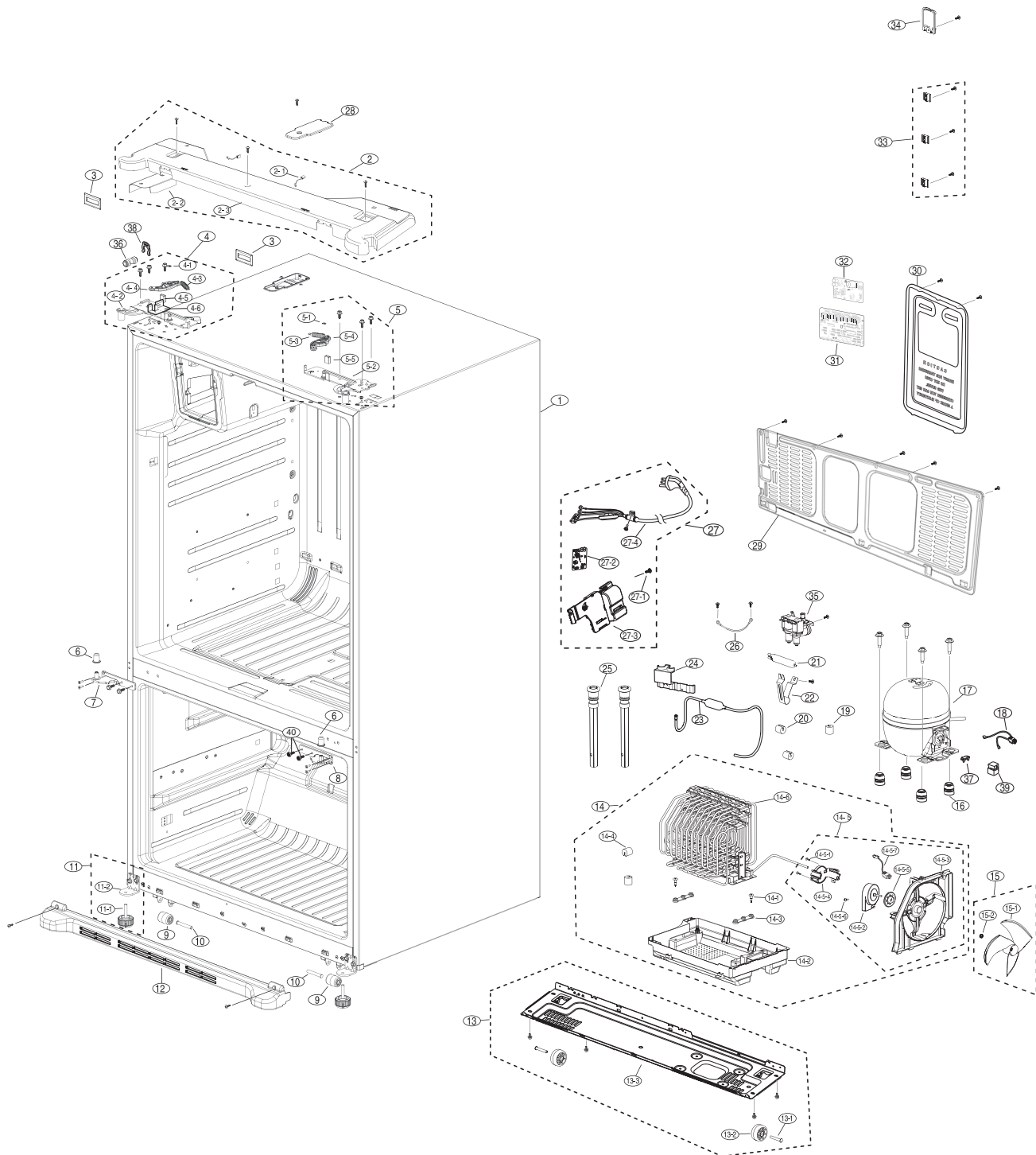
NO	CODE-NO	PART NAME	SPEC	QUAN TITY	SGEC CODE	REMARK
11-5	DA63-04609A	COVER-VEG REF	AW-SEM,HIPS,COOL WHITE	1	DA63-03761A	
11-6	DA64-00817A	KNOB-HUMIDITY	QUEEN,ABS	2	same as SEM	
11-7	DA66-00638A	LEVER-HUMIDITY	AW-SEM,TALC PP,COOL WHITE	2	DA66-00438A	
11-8	DA61-04804A	ROLLER-FRE	AW-SEM,POM,NATURAL	2	DA66-10104A	
12	DA97-07006A	ASSY RAIL-VEG L	AW-SEM	1	DA97-04839A	
12-1	DA61-04802A	RAIL-VEG L	AW-SEM,TALC PP,COOL WHITE	1	DA61-03172A	
12-2	DA61-04804A	ROLLER-FRE	AW-SEM,POM,NATURAL	1	DA66-10104A	
13	DA97-07007A	ASSY RAIL-VEG R	AW-SEM	1	DA97-04840A	
13-1	DA61-04803A	RAIL-VEG R	AW-SEM,TALC PP,COOL WHITE	1	DA61-03177A	
13-2	DA61-04804A	ROLLER-FRE	AW-SEM,POM,NATURAL	1	DA66-10104A	
14	DA97-07009A	ASSY CASE-VEG REF	AW-SEM	1	DA97-04846A	
14-1	DA61-04798A	CASE-VEG REF	AW-SEM,SAN,NATURAL	1	DA61-03165A	
14-2	DA63-04610A	COVER-VEG FRONT	AW-SEM,HIPS,COOL WHITE	1	DA63-03426A	
14-3	DA61-04804A	ROLLER-FRE	AW-SEM,POM,NATURAL	2	DA66-10104A	
14-4	DA61-04805A	FIXER-ROLLER	AW-SEM,NY-66,NATURAL	2	DA71-20145A	
15	DA97-07018A	ASSY CASE-VEG REF R	AW-SEM	1	DA97-05381A	
15-1	DA61-04807A	CASE-VEG REF R	AW-SEM,SAN,NATURAL	1	DA61-03652A	
15-2	DA63-04613A	COVER-VEG FRONT R	AW-SEM,HIPS,COOL WHITE	1	DA63-03760A	
15-3	DA61-04804A	ROLLER-FRE	AW-SEM,POM,NATURAL	2	DA66-10104A	
15-4	DA61-04805A	FIXER-ROLLER	AW-SEM,NY-66,NATURAL	2	DA71-20145A	
16	DA97-07021A	ASSY PARTITION-VEG	AW-SEM	1	DA97-05465A	
17	DA97-07129B	ASSY COVER T/WATER	AW-PJT	1	same as SEM	
17-1	6002-000213	SCREW-TAPPING	TH,+,M4,L12,ZPC(WHT),SWRCH18A	2	same as SEM	
17-2	DA63-04674A	COVER-HEATER WATER TANK	AW-PJT,PP,NATURAL	1	same as SEM	
17-3	DA63-04677A	COVER-WATER TANK	AW-PJT,PP,COOL WHITE	1	same as SEM	
17-4	DA97-07150B	ASSY TANK WATER	AW-PJT	1	same as SEM	
18	DA97-06995A	ASSY COVER-DISPENSER	AW-SEM	1	DA97-04952B	
18-1	DA63-04587A	COVER-DISPENSER	AW-SEM,ABS,COOL WHITE	1	DA63-03516B	
18-2	DA64-02734A	BUTTON-COVER DISPENSER	AW-SEM,PP,COOL WHITE	1	DA64-02113A	
18-3	DA73-00230A	RUBBER-COVER-DISPENSER	AW-PJT,SILICON,40±5°,GRAY	1	same as SEM	
19	DA61-04756A	FIXER-WATER HOSE	AW,PP,COOL WHITE	1	DA61-03327A	
20	DA66-00626A	LEVER-CASE DISPENSER	AW-SEM,POM,NTR	1	DA66-00451A	
21	DA34-00011A	SWITCH-MICRO	VP533A-OF-5,MICRO,250V,15A,PBT,GP1006F	1	same as SEM	
22	DA97-07020A	ASSY COVER-SLIDE PANTRY	AW-SEM	1	DA97-05383C	
22-1	DA63-40167A	GROMMET-COVER CHIL	SILICON,WHITE	2	same as SEM	
22-2	DA63-04614A	COVER-SLIDE PANTRY A	AW-SEM(SAMSUNG),GPPS,NATURAL	1	DA63-03764A	
22-3	DA63-04615A	COVER-SLIDE PANTRY B	AW-SEM(SAMSUNG),ABS,COOL WHITE	1	DA63-03765A	
23	DA97-07015A	ASSY SHELF-PANTRY	AW-SEM	1	DA97-05370A	
23-1	DA61-04822A	REINF-SHELF PANTRY	AW-SEM,SECC1,T1.0,BLACK	1	DA61-03174A	
23-2	DA67-02139A	SHELF-PANTRY	AW-SEM,HIPS,COOL WHITE	1	DA67-01781A	
23-3	DA64-02740A	WINDOW-SHELF PANTRY	AW-SEM,GPPS,NATURAL	2	DA64-02235A	
24	DA97-07189A	ASSY COVER-MOTOR DAMPER	AW-SEM	1	DA97-06324A	
24-1	DA31-00071C	MOTOR DC-MOTOR-DAMPER	DC 12V,MAX 600mA	1	same as SEM	
24-2	DA32-00006R	SENSOR TEMP-PANTRY	PX-41C, 502AT,AW-PJT,-40~110℃,5V	1	same as SEM	
24-3	DA62-02057A	INSULATION-MOTOR DC DAMPER	AW-SEM,FOAM-PS	1	DA62-01380A	
24-4	DA63-04655A	COVER-MOTOR DC DAMPER	AW-SEM,PP,COOL WHITE	1	DA63-04274A	
25	DA61-04795A	GUIDE-FRENCH	AW-SEM,PC-ABS,COOL WHITE	1	DA61-03202A	
26	DA63-04150B	COVER-FILTER	AW-SEM,HIPS,COOL WHITE	1	DA63-04150A	
27	DA97-06317A	ASSY CASE-FILTER	AW-PJT	1	same as SEM	
28	DA61-04794A	GUIDE-PANTRY	AW-SEM,TALC PP,COOL WHITE	1	DA61-03167A	
29	DA97-07016A	ASSY COVER-RAIL PANTRY L	AW-PJT	1	DA97-05371B	
29-1	DA61-03176A	SUPPORT-ROLLER PANTRY	AW-PBR,NBR,PVC	1	same as SEM	

■ Parts List of Refrigerator

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EXPLODED VIEW & PARTS LIST

5-3) Cabinet



EXPLODED VIEW & PARTS LIST

■ Parts List of Cabinet

NO	CODE-NO	PART NAME	SPEC	QUAN TITY	SGEC CODE	REMARK
1	DA90-05502A	ASSY CABINET FORM	AW-SEM(INVERTER),RF266,REAL STAINLESS,PLATINUM INOX	1	DA90-03646V	
1	DA90-05502B	ASSY CABINET FORM	AW-SEM(INVERTER),RF266,BLACK	1	DA90-03646V	
1	DA90-05502C	ASSY CABINET FORM	AW-SEM(INVERTER),RF266,SNOW WHITE	1	DA90-03646V	
1	DA90-05501A	ASSY CABINET FORM	AW-SEM(INVERTER),RF265,REAL STAINLESS,PLATINUM INOX	1	DA90-03646Q	
1	DA90-05501B	ASSY CABINET FORM	AW-SEM(INVERTER),RF265,BLACK	1	DA90-03646Q	
1	DA90-05501C	ASSY CABINET FORM	AW-SEM(INVERTER),RF265,SNOW WHITE	1	DA90-03646Q	
2	DA97-07049K	ASSY-TOP TABLE	AW-SEM(265,266)- Inverter,CREAMY-STS	1	DA97-04901M	
2-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A	3	same as SEM	
2-2	6002-001122	SCREW-TAPPING	FH,+,M4,L14,ZPC(WHT),SWRCH18A	2	same as SEM	
2-3	DA34-00043B	SWITCH REED-ASSY	200VDC,0.5A,MDCG-4 type	2	same as SEM	
2-4	DA41-00412H	PBA PANEL	AW INVERTER(°F)BLUE LED,(°F),12V, 5V,60Hz,N	1	same as SEM	
2-5	DA61-04793A	CASE-PBA DISPLAY	AW-SEM,ABS,COOL WHITE	1	DA61-03194B	
2-6	DA61-04783A	PLATE-TOP TABLE	AW-SEM(265),SBHG1,T0.3	1	DA61-04052A	
2-7	DA64-02736A	TOP TABLE	AW-SEM(265),ABS,CREAMY-STS	1	DA64-02066B	
2-8	DA64-02738A	BUTTON-CONTROL	AW-SEM,GPPS,NTR,GPPS (HF-2660S)	1	same as SEM	
2-9	DA64-02076E	INLAY-DISPLAY	AW-PJT,PC,0.25,28,300	1	same as SEM	
2	DA97-07049L	ASSY-TOP TABLE	AW-SEM(265,266)- Inverter,i-BLACK	1	DA97-04901M	
2-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A	3	same as SEM	
2-2	6002-001122	SCREW-TAPPING	FH,+,M4,L14,ZPC(WHT),SWRCH18A	2	same as SEM	
2-3	DA34-00043B	SWITCH REED-ASSY	200VDC,0.5A,MDCG-4 type	2	same as SEM	
2-4	DA41-00412H	PBA PANEL	300*24.5*1.6T,BLUE LED,12V, 5V,60Hz	1	same as SEM	
2-5	DA61-04793A	CASE-PBA DISPLAY	AW-SEM,ABS,COOL WHITE	1	DA61-03194B	
2-6	DA61-04783A	PLATE-TOP TABLE	AW-SEM(265),SBHG1,T0.3	1	DA61-04052A	
2-7	DA64-02736B	TOP TABLE	AW-SEM(265),ABS,i-BLACK	1	DA64-02066B	
2-8	DA64-02738A	BUTTON-CONTROL	AW-SEM,GPPS,NTR,GPPS (HF-2660S)	1	same as SEM	
2-9	DA64-02076E	INLAY-DISPLAY	AW-PJT,PC,0.25,28,300	1	same as SEM	
2	DA97-07049M	ASSY-TOP TABLE	AW-SEM(265,266)- Inverter,Snow-White	1	DA97-04901M	
2-1	6002-000630	SCREW-TAPPING	PH,+,2S,M3,L8,ZPC(WHT),SWRCH18A	3	same as SEM	
2-2	6002-001122	SCREW-TAPPING	FH,+,M4,L14,ZPC(WHT),SWRCH18A	2	same as SEM	
2-3	DA34-00043B	SWITCH REED-ASSY	200VDC,0.5A,MDCG-4 type	2	same as SEM	
2-4	DA41-00412H	PBA PANEL	300*24.5*1.6T,BLUE LED,12V, 5V,60Hz	1	same as SEM	
2-5	DA61-04793A	CASE-PBA DISPLAY	AW-SEM,ABS,COOL WHITE	1	DA61-03194B	
2-6	DA61-04783A	PLATE-TOP TABLE	AW-SEM(265),SBHG1,T0.3	1	DA61-04052A	
2-7	DA64-02736C	TOP TABLE	AW-SEM(265),ABS,SNOW WHITE	1	DA64-02066B	
2-8	DA64-02738A	BUTTON-CONTROL	AW-SEM,GPPS,NTR,GPPS (HF-2660S)	1	same as SEM	
2-9	DA64-02076E	INLAY-DISPLAY	AW-PJT,PC,0.25,28,300	1	same as SEM	
3	DA67-02131A	CAP-TOP TABLE	AW-SEM,ABS,CREAMY STS	1	DA67-01613B	
3	DA67-02131B	CAP-TOP TABLE	AW-SEM,ABS,BLACK	1	DA67-01613B	
3	DA67-02131C	CAP-TOP TABLE	AW-SEM,ABS,WHITE	1	DA67-01613B	
4	DA97-06998A	ASSY HINGE UPP-L	AW-SEM,CREAMY STS	1	DA97-04874B	
4-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK	1	same as SEM	
4-2	DA61-04771A	HINGE-UPP L	AW-SEM,SHP1,T2.9,BLACK,ELECTRODEPOSITON	1	DA61-03239A	
4-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,-,24,	1	same as SEM	
4-4	DA97-07026A	ASSY LEVER-AUTO CLOSE	AW-SEM,CREAMY STS(SC-07009R)	1	DA97-04903B	
4-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	same as SEM	
4	DA97-06998B	ASSY HINGE UPP-L	AW-SEM,BLACK	1	DA97-04874B	
4-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK	1	same as SEM	
4-2	DA61-04771A	HINGE-UPP L	AW-SEM,SHP1,T2.9,BLACK,ELECTRODEPOSITON	1	DA61-03239A	
4-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,-,24,	1	same as SEM	
4-4	DA97-07026B	ASSY LEVER-AUTO CLOSE	AW-SEM,i-BLACK(SC-00477R)	1	DA97-04903B	
4-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	same as SEM	
4	DA97-06998C	ASSY HINGE UPP-L	AW-SEM,WHITE	1	DA97-04874B	

EXPLODED VIEW & PARTS LIST

■ Parts List of Cabinet

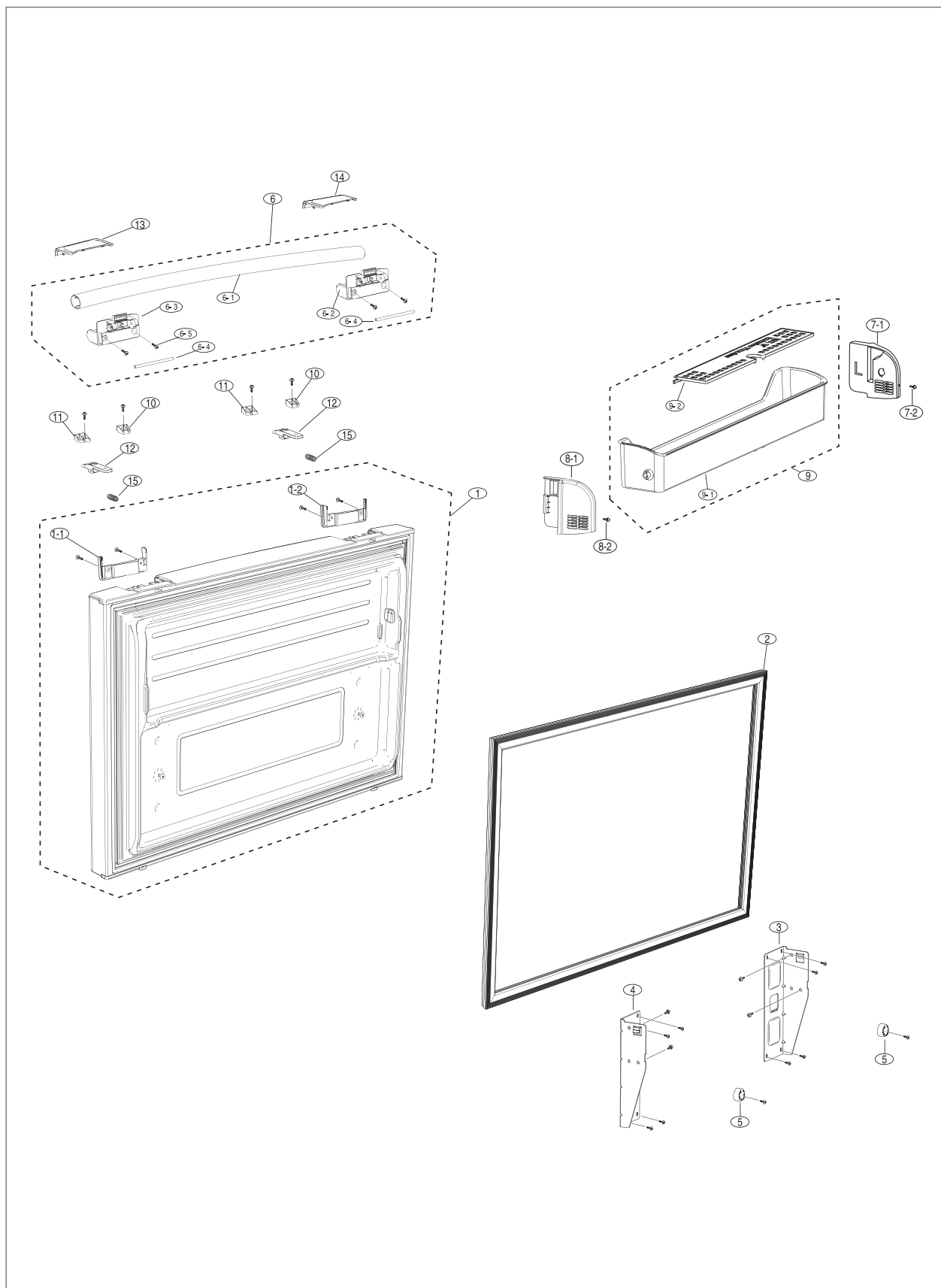
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4-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK	1	same as SEM	
4-2	DA61-04771A	HINGE-UPP L	AW-SEM,SHP1,T2.9,BLACK,ELECTRODEPOSITON	1	DA61-03239A	
4-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,STS604,1.4,9.2,12,-24,	1	same as SEM	
4-4	DA97-07026C	ASSY LEVER-AUTO CLOSE	AW-SEM,SNOW WHITE	1	DA97-04903B	
4-5	DA63-03673A	GROMMET-LEVER	AW-PJT,NBR,BLACK	1	same as SEM	
5	DA97-07002A	ASSY HINGE UPP-R	AW-SEM(BEST),T2.9,CREAMY STS(SC-07009R)	1	DA97-04875B	
5-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK	1	same as SEM	
5-2	DA61-04774A	HINGE-UPP R	AW-SEM,SHP1,T2.9,BLACK,ELECTRODEPOSITON	1	DA61-03240A	
5-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,HSWR,1.4,9.2,12,17 3/4	1	same as SEM	
5-4	DA97-07026A	ASSY LEVER-AUTO CLOSE	AW-SEM,CREAMY STS(SC-07009R)	1	DA97-04903B	
5-5	DA63-03673A	GROMMET-LEVER	NBR,BLACK	1	same as SEM	
5	DA97-07002B	ASSY HINGE UPP-R	AW-SEM(BEST),T2.9,I-BLACK(SC-00477R)	1	DA97-04875B	
5-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK	1	same as SEM	
5-2	DA61-04774A	HINGE-UPP R	AW-SEM,SHP1,T2.9,BLACK,ELECTRODEPOSITON	1	DA61-03240A	
5-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,HSWR,1.4,9.2,12,17 3/4	1	same as SEM	
5-4	DA97-07026B	ASSY LEVER-AUTO CLOSE	AW-SEM,I-BLACK(SC-00477R)	1	DA97-04903B	
5-5	DA63-03673A	GROMMET-LEVER	NBR,BLACK	1	same as SEM	
5	DA97-07002C	ASSY HINGE UPP-R	AW-SEM(BEST),T2.9,SNOW WHITE	1	DA97-04875B	
5-1	DA60-00162A	FASTENER-RING	AW-PJT,STS304,ID5,T0.5,OD11,BLACK	1	same as SEM	
5-2	DA61-04774A	HINGE-UPP R	AW-SEM,SHP1,T2.9,BLACK,ELECTRODEPOSITON	1	DA61-03240A	
5-3	DA61-03301A	SPRING ETC-AUTO CLOSE	AW-PJT,HSWR,1.4,9.2,12,17 3/4	1	same as SEM	
5-4	DA97-07026C	ASSY LEVER-AUTO CLOSE	AW-SEM,SNOW WHITE	1	DA97-04903B	
5-5	DA63-03673A	GROMMET-LEVER	NBR,BLACK	1	same as SEM	
6	DA63-04599A	GROMMET HINGE-MID R	AW-SEM,POM,WHITE	2	DA63-02905A	
7	DA97-06572A	ASSY HINGE MID-L	AW-PJT,T4.5,Ni-Cr Plated	1	same as SEM	
8	DA97-06573A	ASSY HINGE MID-R	AW-PJT,T4.5,Ni-Cr Plated	1	same as SEM	
9	DA61-04702A	CASTER-FRONT	AW-PJT,NTR,PP+TPE	2	DA61-40115B	
10	DA61-01920A	CASTER-RIVET	ZPC2,MSWR10,OD8.0,L54	2	DA60-90124A	
11	DA97-06977A	ASSY SUPPORT-FOOT FRONT	AW-PJT	2	DA97-05016A	
11-1	DA61-04721A	FOOT-FRONT	AW-PJT,PP,NTR	2	DA61-00805C	
11-2	DA61-03217A	SUPPORT-FOOT FRONT	AW-PJT,SHP1,T4.0,BLACK	2	same as SEM	
12	DA63-05079A	COVER-LEG FRONT	AW-SEM(INVERTER),PP,Creamy STS,DA63-03434A	1	DA63-03434B	
12	DA63-05079B	COVER-LEG FRONT	AW-SEM(INVERTER),PP,I-BLACK(SC-00477R)	1	DA63-03434B	
12	DA63-05079C	COVER-LEG FRONT	AW-SEM(INVERTER),PP,SNOW WHITE	1	DA63-03434B	
13	DA97-06969A	ASSY CHASSIS-COMP	AW-PJT	1	DA97-02064B	
13-1	DA66-00649A	SHAFT-CASTER	AW-PJT,MSWR10,L46,OD8.2,ZPC2	2	DA60-90146A	
13-2	DA61-04703A	CASTER-REAR	AW-PJT,PP,NTR,PP+TPE	2	DA61-40126B	
13-3	DA64-02735A	CHASSIS COMP	AW-PJT,SGHC,T1.4	1	DA64-01170A	
14	DA97-07825A	ASSY TRAY DRAIN WATER	AW-SEM	1	DA97-05043B	
14-1	6009-001252	SCREW-SPECIAL	PH,+,M4.0,L20(12),ZPC(WHT),SWRCH18A,TAPP 1	4	same as SEM	
14-2	DA63-05078A	TRAY DRAIN-WATER	AW-SEM,PP,NATURAL	1	DA63-03450A	
14-3	DA63-40128A	GROMMET-SUB COND	NBR,DARK-GRAY	2	same as SEM	
14-4	DA63-40171B	GROMMET-SUCT PIPE A	NBR,OD20,ID4,L20,Brow	2	same as SEM	
14-5	DA97-07824A	ASSY SUPPORT-CIRCUIT MOTOR	AW-SEM	1	DA97-03145K	
14-5-1	6003-000003	SCREW-TAPPING	BH,+,B,M4,L10,ZPC(BLK),SWRCH18A	2	same as SEM	
14-5-2	DA31-00146B	MOTOR BLDC	DRCP5030LA,1560,DC12V,230mA,2.7W	1	same as SEM	
14-5-3	DA61-05343A	SUPPORT-CIRCUIT MOTOR	AW-SEM,ABS,NATURAL	1	DA61-02349B	
14-5-4	DA61-04764A	BRACKET-CIRCUIT MOTOR	AW-SEM,ABS,NATURAL	1	DA61-02355B	
14-5-5	DA63-01146A	GROMMET-MOTOR,REAR	A-TOP,NBR,ID6.5,OD42,BLK,BLDC	2	same as SEM	
14-5-6	DA63-40167A	GROMMET-COVER CHIL	SILICON,WHITE	1	same as SEM	
14-5-7	DA96-00042A	ASSY-HARNESS MOTOR	A-TOP, UL(MOTOR),C-FAN,350MM	1	same as SEM	
14-6	DA97-06988A	ASSY PIPE-SPIRAL COND	AW-SEM	1	DA97-05093A	

■ Parts List of Cabinet

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EXPLODED VIEW & PARTS LIST

5-4) Disassembly of Freeze Door



EXPLODED VIEW & PARTS LIST

■ Parts List of Freezer Door

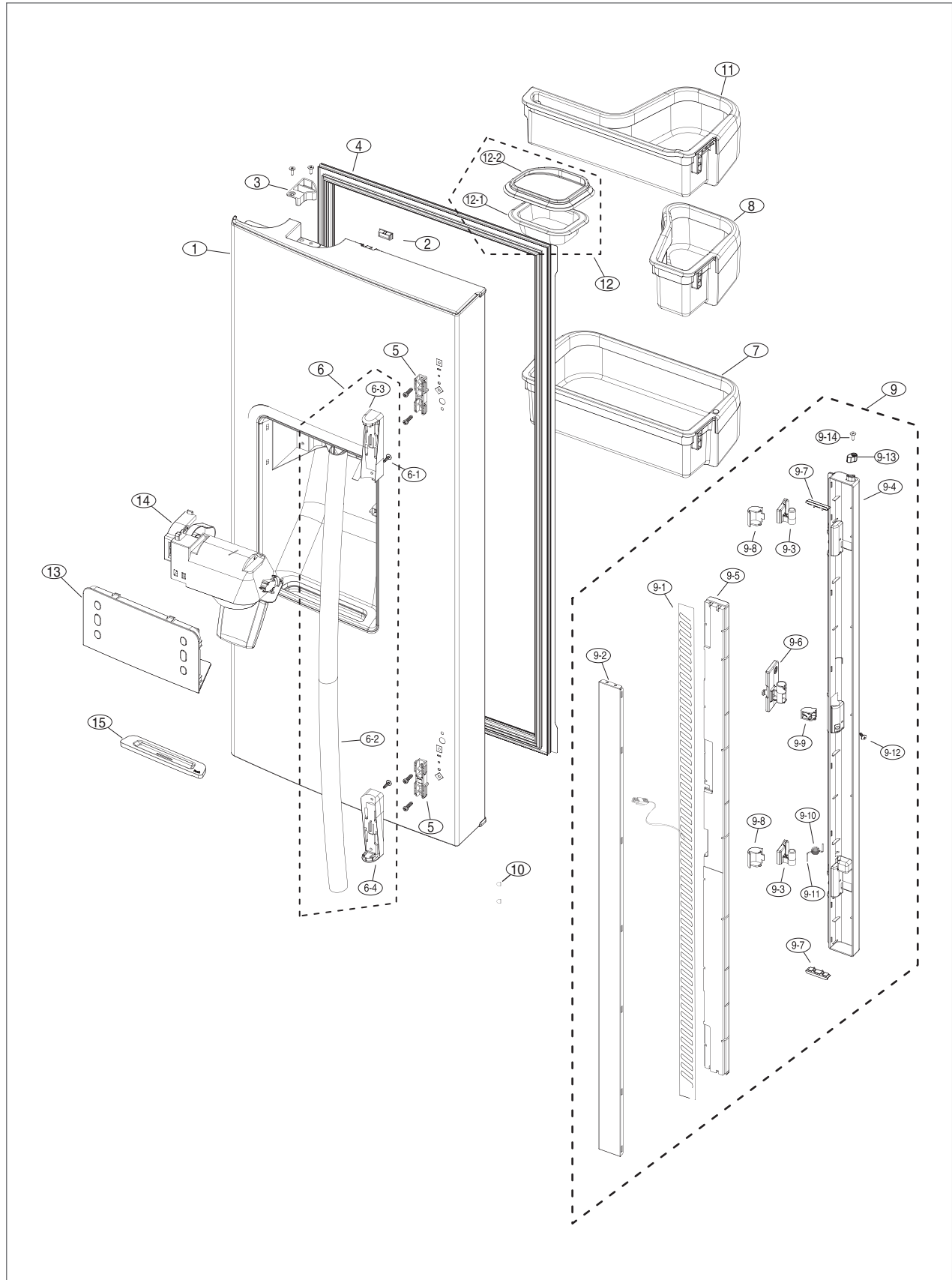
NO	CODE-NO	PART NAME	SPEC	QUAN TITY	SGEC CODE	REMARK
1	DA91-02826A	ASSY DOOR FOAM FRE	AW-SEM,REAL STAINLESS	1	DA91-02719E	
1-1	DA67-02143A	CAP DOOR-FRE SUB L	AW-PJT,ABS,CREAMY STS(SC-07009R)	1	DA67-02055B	
1-2	DA67-02142A	CAP DOOR-FRE SUB R	AW-PJT,ABS,CREAMY STS(SC-07009R)	1	DA67-02054B	
1	DA91-02826B	ASSY DOOR FOAM FRE	AW-SEM,PLATINUM INOX	1	DA91-02719E	
1-1	DA67-02143A	CAP DOOR-FRE SUB L	AW-PJT,ABS,CREAMY STS(SC-07009R)	1	DA67-02055B	
1-2	DA67-02142A	CAP DOOR-FRE SUB R	AW-PJT,ABS,CREAMY STS(SC-07009R)	1	DA67-02054B	
1	DA91-02826C	ASSY DOOR FOAM FRE	AW-SEM,BLACK	1	DA91-02719E	
1-1	DA67-02143B	CAP DOOR-FRE SUB L	AW-PJT,ABS,I-BLACK(SC-00477R)	1	DA67-02055B	
1-2	DA67-02142B	CAP DOOR-FRE SUB R	AW-PJT,ABS,I-BLACK(SC-00477R)	1	DA67-02054B	
1	DA91-02826D	ASSY DOOR FOAM FRE	AW-SEM,WHITE	1	DA91-02719E	
1-1	DA67-02143C	CAP DOOR-FRE SUB L	AW-PJT,ABS,SNOW WHITE	1	DA67-02055B	
1-2	DA67-02142C	CAP DOOR-FRE SUB R	AW-PJT,ABS,SNOW WHITE	1	DA67-02054B	
2	DA97-07192A	ASSY-GASKET DOOR FRE	AW-SEM,GRAY	1	DA97-05557B	
2	DA97-07192B	ASSY-GASKET DOOR FRE	AW-SEM,BLACK	1	DA97-05557B	
3	DA61-04840A	HANGER-RAIL FRONT L	AW-PJT,SECC1,COOL WHITE	1	DA61-03153B	
4	DA61-04841A	HANGER-RAIL FRONT R	AW-PJT,SECC1,COOL WHITE	1	DA61-03155B	
5	DA61-04836A	SUPPORT-DOOR POSITION IN	AW-PJT,HIPS,NATURAL	2	DA61-02904B	
6	DA97-06429F	ASSY HANDLE-BAR FRE	AW-PJT,AL,NEW VERSAILLES-SILVER	1	same as SEM	
6-1	DA64-02527F	HANDLE-BAR FRE	AW-PJT,AL,724,Versailles-Silver	1	same as SEM	
6-2	DA67-02060B	CAP-HANDLE FRE L	AW-PJT,PC-ABE,CREAMY-STS	1	same as SEM	
6-3	DA67-02061B	CAP-HANDLE FRE R	AW-PJT,PC-ABE,CREAMY-STS	1	same as SEM	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	same as SEM	
6-5	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	4	same as SEM	
6	DA97-06429H	ASSY HANDLE-BAR FRE	AW-PJT,AL,724,Versailles-Silver(sanding)	1	same as SEM	
6-1	DA64-02527H	HANDLE-BAR FRE	AW-PJT,AL,724,Versailles-Silver(sanding)	1	same as SEM	
6-2	DA67-02060B	CAP-HANDLE FRE L	AW-PJT,PC-ABE,CREAMY-STS	1	same as SEM	
6-3	DA67-02061B	CAP-HANDLE FRE R	AW-PJT,PC-ABE,CREAMY-STS	1	same as SEM	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	same as SEM	
6-5	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	4	same as SEM	
6	DA97-06429E	ASSY HANDLE-BAR FRE	AW-PJT,AL,MATURE-BLACK	1	same as SEM	
6-1	DA64-02527E	HANDLE-BAR FRE	AW-PJT,AL,724,MATURE-BLACK	1	same as SEM	
6-2	DA67-02060A	CAP-HANDLE FRE L	AW1-PJT,PC-ABS,I-BLACK	1	same as SEM	
6-3	DA67-02061A	CAP-HANDLE FRE R	AW1-PJT,PC-ABS,I-BLACK	1	same as SEM	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	same as SEM	
6-5	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	4	same as SEM	
6	DA97-06429G	ASSY HANDLE-BAR FRE	AW-PJT,AL,SNOW-WHITE	1	same as SEM	
6-1	DA64-02527G	HANDLE-BAR FRE	AW-PJT,AL,SNOW-WHITE	1	same as SEM	
6-2	DA67-02060C	CAP-HANDLE FRE L	AW-PJT,PC,SNOW WHITE	1	same as SEM	
6-3	DA67-02061C	CAP-HANDLE FRE R	AW-PJT,PC,SNOW WHITE	1	same as SEM	
6-4	DA66-00579A	SHAFT-CAP HANDLE	AW-PJT,MSWR10,108,5,ZPC3(Y)	2	same as SEM	
6-5	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	4	same as SEM	
7	DA97-07036A	ASSY SUPPORT-GUARD FRE L	AW-SEM	1	NEW	
7-1	DA61-04828A	SUPPORT-GUARD FRE L	AW-PJT,HIPS,COOL WHITE	1	DA61-03763A	
7-2	DA63-40167A	GROMMET-COVER CHILL	SILICON,L16,WHITE	1	same as SEM	
8	DA97-07035A	ASSY SUPPORT-GUARD FRE R	AW-SEM	1	NEW	
8-1	DA61-04828A	SUPPORT-GUARD FRE R	AW-PJT,HIPS,COOL WHITE	1	DA61-03763A	
8-2	DA63-40167A	GROMMET-COVER CHILL	SILICON,L16,WHITE	1	same as SEM	
9	DA97-07031A	ASSY GUARD FRE	AW-SEM	1	DA97-04880A	
9-1	DA63-04628A	GUARD-FRE	AW-PJT,HIPS,COOL WHITE	1	DA63-03458A	
9-2	DA63-04627A	GUARD-FRE FLIP	AW-PJT,TALC PP,COOL WHITE	1	DA63-03459A	
10	DA61-04837A	FIXER-SHAFT HANDLE L	AW-PJT,POM,NATURAL	2	DA61-04254A	
11	DA61-04838A	FIXER-SHAFT HANDLE R	AW-PJT,POM,NATURAL	2	DA61-04255A	

■ Parts List of Freezer Door

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EXPLODED VIEW & PARTS LIST

5-5) Disassembly of Refrigerator DoorLeft



EXPLODED VIEW & PARTS LIST

■ Parts List of Refrigerator Door-Left

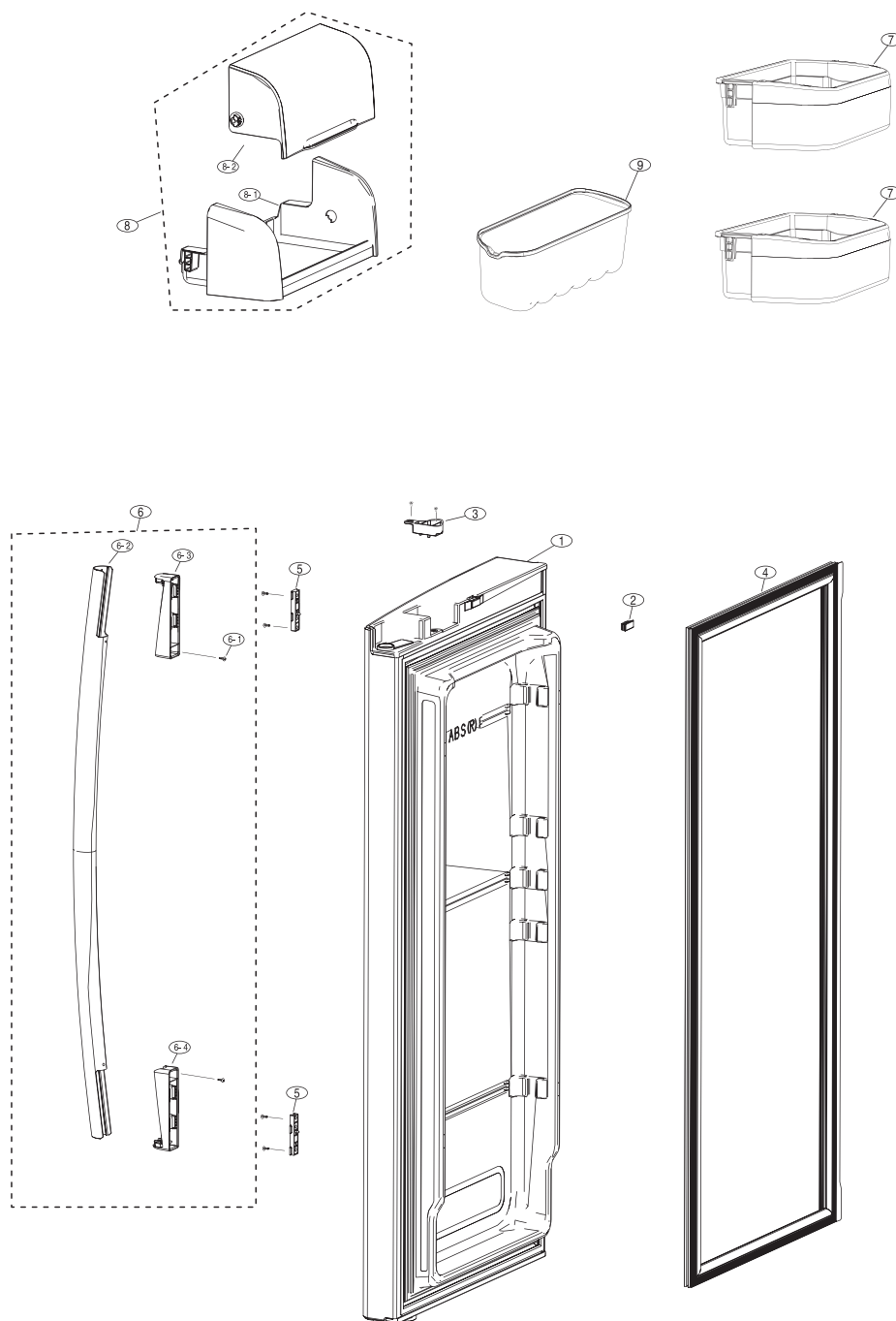
NO	CODE-NO	PART NAME	SPEC	QUAN TITY	SGEC CODE	REMARK
1	DA91-02827A	ASSY DOOR FOAM REF L	AW-SEM,REAL STAINLESS,RF266,265	1	DA91-02460J	
1	DA91-02827B	ASSY DOOR FOAM REF L	AW-SEM,PLATINUM INOX,RF266,265	1	DA91-02460J	
1	DA91-02827C	ASSY DOOR FOAM REF L	AW-SEM,BLACK,RF266,265	1	DA91-02460J	
1	DA91-02827D	ASSY DOOR FOAM REF L	AW-SEM,WHITE,RF266,265	1	DA91-02460J	
2	DA61-02738F	MAGNET-ASSY	AW,ABS,5mm,7mm,18mm,CREAMY-STS	1	same as SEM	
2	DA61-02738E	MAGNET-ASSY	AW,ABS,5mm,7mm,18mm,I-BLACK	1	same as SEM	
2	DA61-02738A	MAGNET-ASSY	CORE-PJT,T5,W7,L18,WHITE	1	same as SEM	
3	DA66-00641A	CAM-AUTO CLOSE L	AW-PJT,NY-66,CREAMY STS	1	DA66-00442B	
3	DA66-00641B	CAM-AUTO CLOSE L	AW-PJT,NY-66,I-BLACK	1	DA66-00442B	
3	DA66-00641C	CAM-AUTO CLOSE L	AW-PJT,NY-66,SNOW WHITE	1	DA66-00442B	
4	DA97-07191A	ASSY-GASKET DOOR REF	AW-SEM,GRAY	1	DA97-05253B	
4	DA97-07191B	ASSY-GASKET DOOR REF	AW-SEM,BLACK	1	DA97-05253B	
5	DA61-04871A	FIXER-HANDLE	AW-PJT,NY-66,NATURAL	2	DA61-02984A	
6	DA97-04417J	ASSY HANDLE-BAR(REF)	AW-PJT,VERSAILLES SILVER	1	same as SEM	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	same as SEM	
6-2	DA64-01979E	HANDLE BAR	A-TOP 06,AL(A6063),VERSAILLES SILVER,VERTICAL HAIR LINE	1	same as SEM	
6-3	DA67-01527F	CAP-HANDLE UPP	A-TOP06,ABS,NOBLE-GRAY,VERSAILLES SILVER	1	same as SEM	
6-4	DA67-01528F	CAP-HANDLE LOW	A-TOP06,ABS,NOBLE-GRAY,VERSAILLES SILVER	1	same as SEM	
6	DA97-04417K	ASSY HANDLE-BAR(REF)	AW-PJT,PLATIUNEM STS	1	same as SEM	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	same as SEM	
6-2	DA64-01979B	HANDLE BAR	A-TOP06,AL(A6063),VERSAILLES SILVER	1	same as SEM	
6-3	DA67-01527F	CAP-HANDLE UPP	A-TOP06,ABS,NOBLE-GRAY,VERSAILLES SILVER	1	same as SEM	
6-4	DA67-01528F	CAP-HANDLE LOW	A-TOP06,ABS,NOBLE-GRAY,VERSAILLES SILVER	1	same as SEM	
6	DA97-04417N	ASSY HANDLE-BAR	AW-PJT,MATURE BLACK	1	same as SEM	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	same as SEM	
6-2	DA64-01979A	HANDLE BAR	A-TOP 06,AL(A6063),BLACK,BLACK COATING	1	same as SEM	
6-3	DA67-01527E	CAP-HANDLE UPP	A-TOP06,ABS,I-BLACK(SC-00477R),MATURE-BLACK(SC-03106S)	1	same as SEM	
6-4	DA67-01528E	CAP-HANDLE LOW	A-TOP06,ABS,I-BLACK(SC-00477R),MATURE-BLACK(SC-03106S)	1	same as SEM	
6	DA97-04417D	ASSY HANDLE-BAR	A-TOP06,AL(0603),L876,SNOW-WHITE	1	same as SEM	
6-1	6002-000215	SCREW-TAPPING	TH,+,1,M4.0,L16,ZPC(WHT),SWRCH18A	2	same as SEM	
6-2	DA64-01979D	HANDLE BAR	A-TOP06,AL(A6063),SNOW WHITE(SC-97527T)	1	same as SEM	
6-3	DA67-01527D	CAP-HANDLE UPP	A-TOP06,ABS,SNOW-WHITE(SC-97527R)	1	same as SEM	
6-4	DA67-01528D	CAP-HANDLE LOW	A-TOP06,ABS,SNOW-WHITE(SC-97527R)	1	same as SEM	
7	DA63-04621A	GUARD REF	AW-PJT,PP,COOL WHITE	3	DA63-03467A	
8	DA63-04639A	TRAY-UTILITY	AW-PJT,GPPS,NTR	1	DA63-04396A	
9	DA97-07276A	ASSY-FRENCH	AW-SEM,THAI SILVER	1	DA97-05021P	
9-1	DA47-00245C	HEATER CORD-FRENCH	AW-PJT,P-CORD,8W,115V,1653BY,FRENCH	1	same as SEM	
9-2	DA61-04869A	PLATE-FRENCH	AW-PJT,SECC1,THAI SILVER	1	DA61-03207B	
9-3	DA61-04866A	HINGE-FRENCH	AW-PJT,PC,COOL WHITE	2	DA61-03230B	
9-4	DA61-04848A	CASE-FRENCH	AW-PJT,ABS,COOL WHITE	1	DA61-03234A	
9-5	DA62-02048A	INSULATION-FRENCH	AW-SEM,FOAM-PS	1	DA62-01387A	
9-6	DA63-04645A	COVER-HEATER FRENCH	AW-PJT,PC,COOL WHITE	1	DA63-03454B	
9-7	DA63-03508B	GASKET-FRENCH	AW-PJT,SILICONE,W9.9,L41.1,GRAY	2	same as SEM	
9-8	DA67-02146A	CAP-CASE FRENCH	AW-PJT,ABS,COOL WHITE	2	DA67-01650A	
9-9	DA67-02154A	CAP-CASE FRENCH MID	AW-PJT,ABS,COOL WHITE	1	DA67-01701A	
9-10	DA81-01345A	SPRING-ETC FRENCH	STS304,P11.4	1	same as SEM	
9-11	DA81-01346A	PIN-FRENCH SPRING	RD-PVC,WHITE	1	same as SEM	
9-12	6002-000213	SCREW-TAPPING	TH,+,1,M4,L12,ZPC(WHT),SWRCH18A	1	same as SEM	
9-13	DA67-02181A	CAP-GUIDE FRENCH UPP	AW,POM,WHITE	1	NEW	
9-14	6003-000333	SCREW-TAPTITE	RH,+,2S,M3,L10,ZPC(WHT),SWRCH18A	1	same as SEM	
9	DA97-07276B	ASSY-FRENCH	AW-SEM,BLACK	1	DA97-05021P	
9-1	DA47-00245C	HEATER CORD-FRENCH	AW-PJT,P-CORD,8W,115V,1653BY,FRENCH	1	same as SEM	

■ Parts List of Refrigerator Door-Left

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EXPLODED VIEW & PARTS LIST

5-6) Disassembly of Refrigerator Door Right



■ Parts List of Refrigerator Door-Right

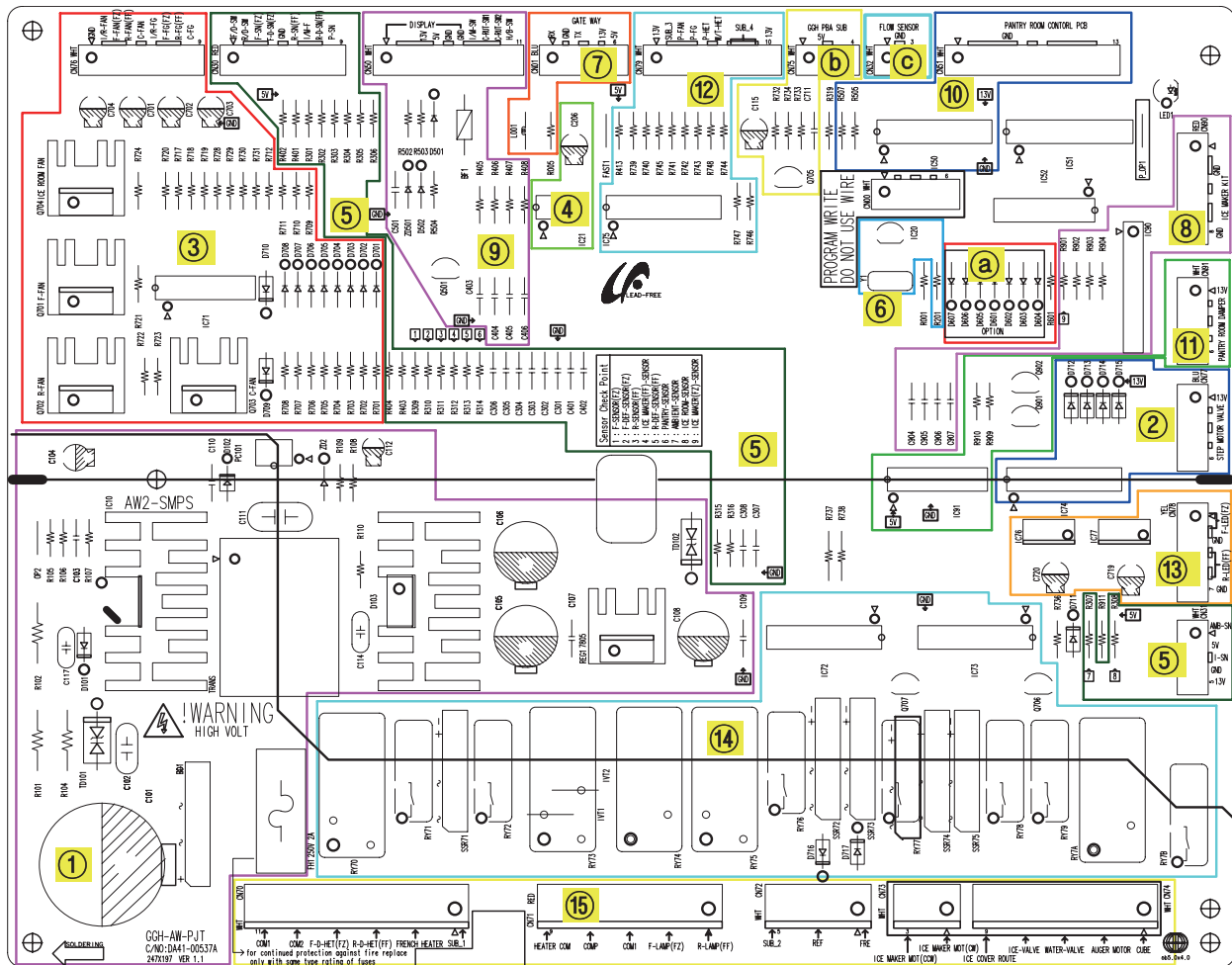
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6. PCB DIAGRAM

6-1) PCB LAYOUT WITH PART POSITION	106
6-2) PCB LAYOUT WITH PART POSITION (INVERTER BOARD)	107
6-3) CONNECTOR LAYOUT WITH PART POSITION (MAIN BOARD)	108
6-4) PCB LAYOUT WITH PART POSITION (MAIN BOARD)	109
6-5) CONNECTOR LAYOUT WITH PART POSITION (INVERTER BOARD)	110

PCB DIAGRAM

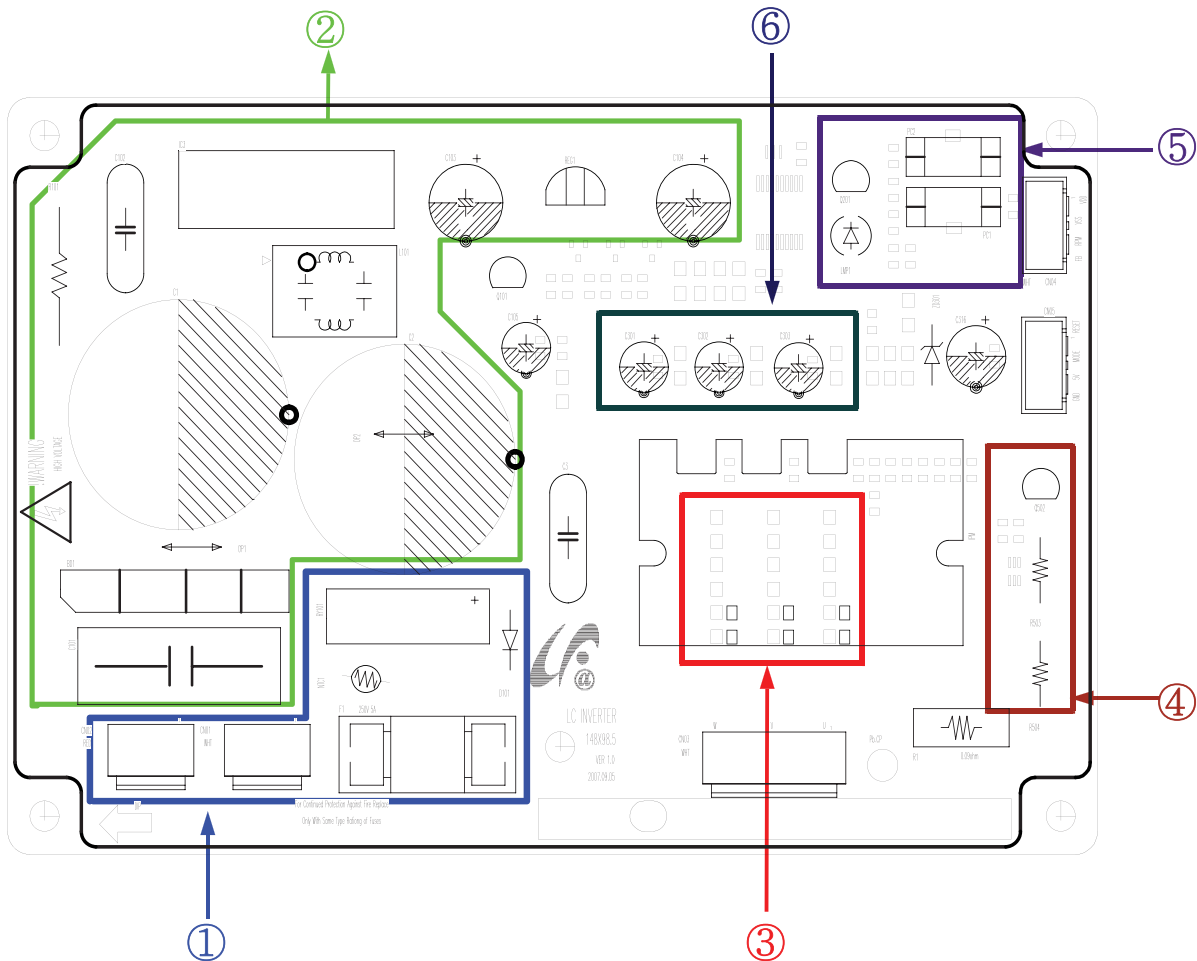
6-1) PCB Layout with part position



1. DC13V, 5V, GND supplied from SMPS PCB
2. Circuit for controlling Step-Valve (3-Way Valve) * Option
3. FAN MOTOR control part : To supply the power from 8.3V ~ 12V according to the motor types. (F,R,C,ICE)
4. EEPROM : Save and record every kinds of data.
5. Transmit inputted signals from every sensor into MICOM after eliminate the noise.
6. Micom : control the regrigerator Ceramic resonator : generate the basic frequency of Micom operation.
Reset IC : make Micom reset if input voltage of Micom is detected less than the specified voltage
7. PLC input/output
- PLC (Power Line communication) * Option(PLC module is not inserted unless specified occasion)
8. Operate ICE-MAKER, supply power to MOTOR, and sense the variation of switch.
9. Main Micom ↔ Panel Micom serial communication circuit
- Dispenser option input part (Water & Cover Ice route switch)
10. Pantry room display control part : display LED, detect KEY state.
11. Control Pantry room damper & Damper heater
12. Water Tank Heater Controls (also controls other options)
13. LED LAMP Control Circuit (F, R LAMP) * Option
14. Relay parts that controls AC load and receives Micom operating signal through Sink IC.
15. Connector with AC load
 - a. Diode option setting area
 - b. Inverter COMP controlling signal
 - c. Sensing part of Flow Sensor.

PCB DIAGRAM

6-2) PCB Layout with part position (Inverter Board)

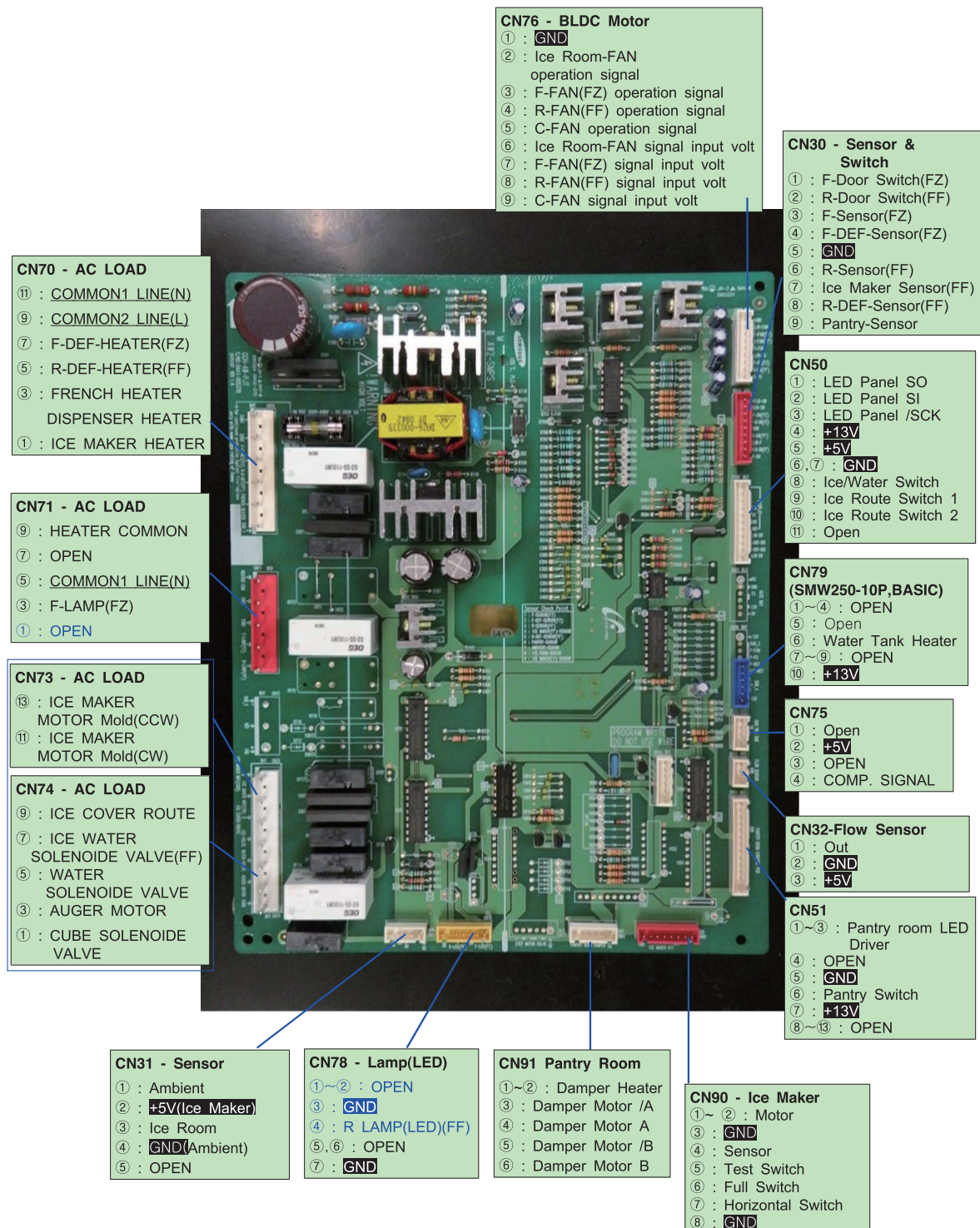


1. Inrush current protecting area : It prevents an instant inrush of current generated in condenser when plug in.
2. PCB Power Bus : power bus (Hybrid IC). It supplies DC15V and 5V to MICOM.
3. Location detecting resistance area : It detects motor location through the current detected.
4. Current detecting area : It detects the current from the SHUNT resistance and controls PWM DUTY.
5. COMP operating Signal area : It receives COMP operating signal from Main PCB and conduct it.
6. BOOTSTRAP live part : Charging circuit that 1GBT of SPM can On/Off securely.

PCB DIAGRAM

6-3) Connector Layout with part position (Main Board)

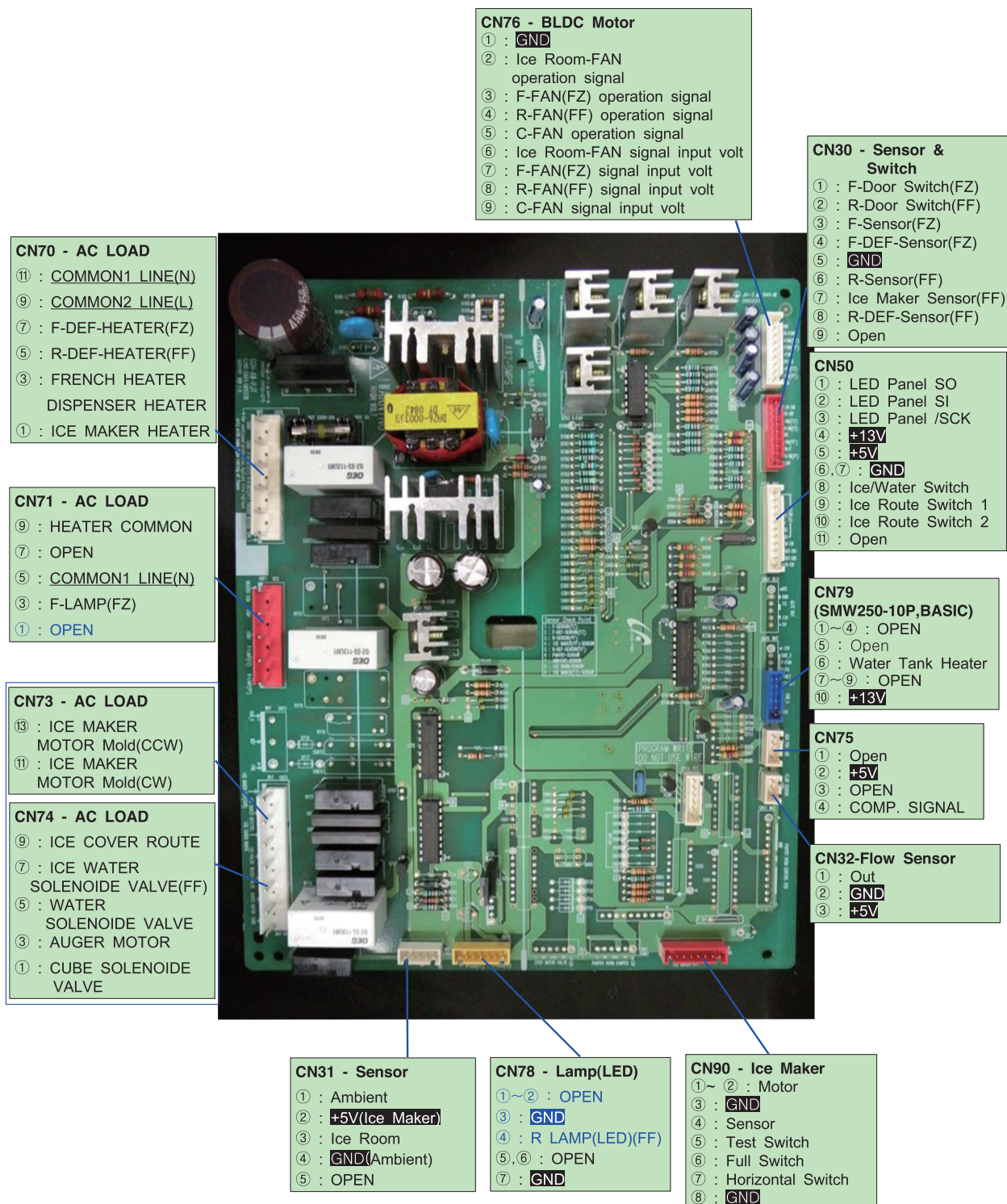
6-3-1. RF267AE



PCB DIAGRAM

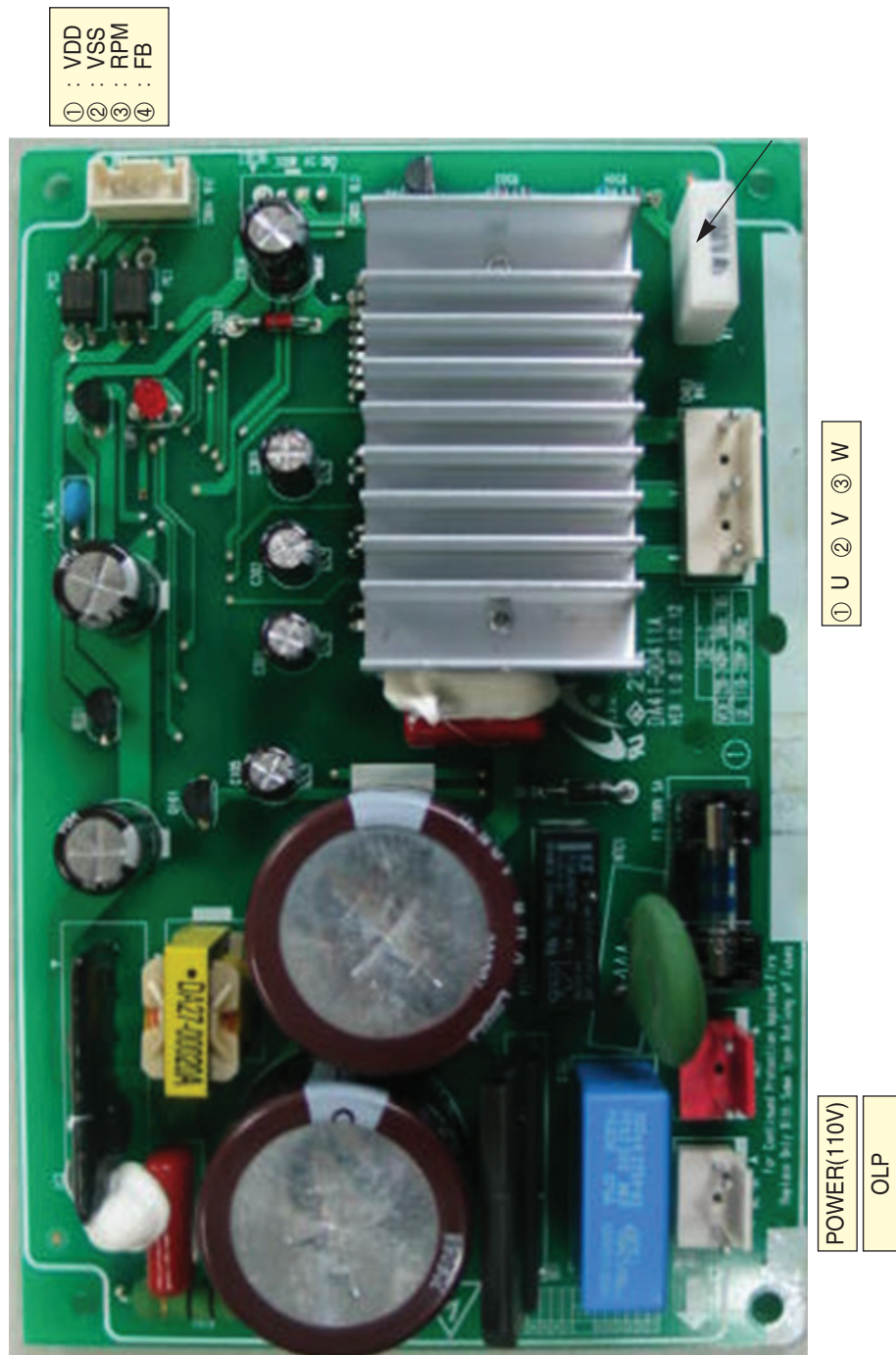
6-4) PCB Layout with part position (Main Board)

6-3-2. RF26XAE



PCB DIAGRAM

6-5) Connector Layout with part position (Inverter Board)

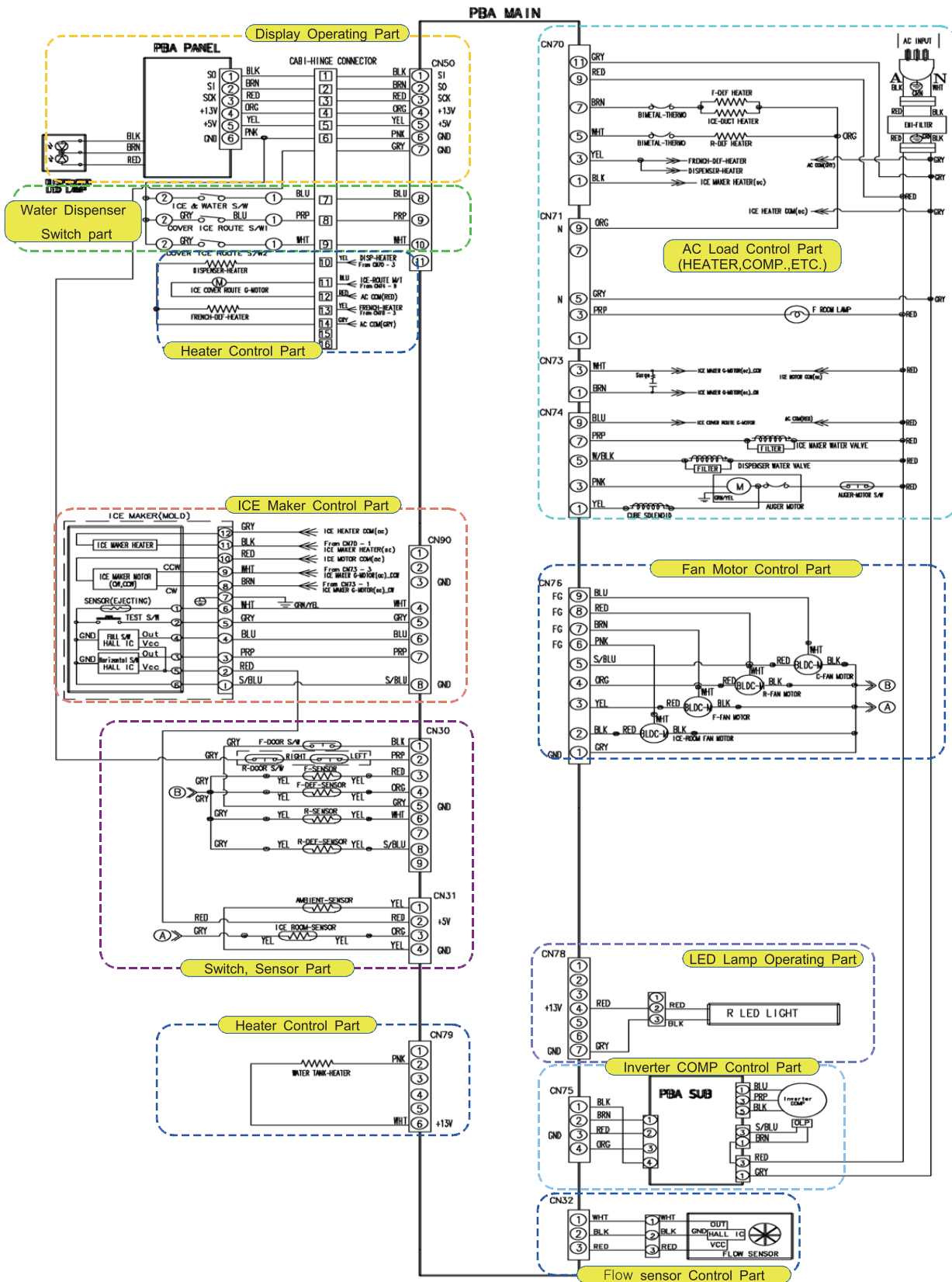


7-1) Model : RF267AE



WIRING DIAGRAM

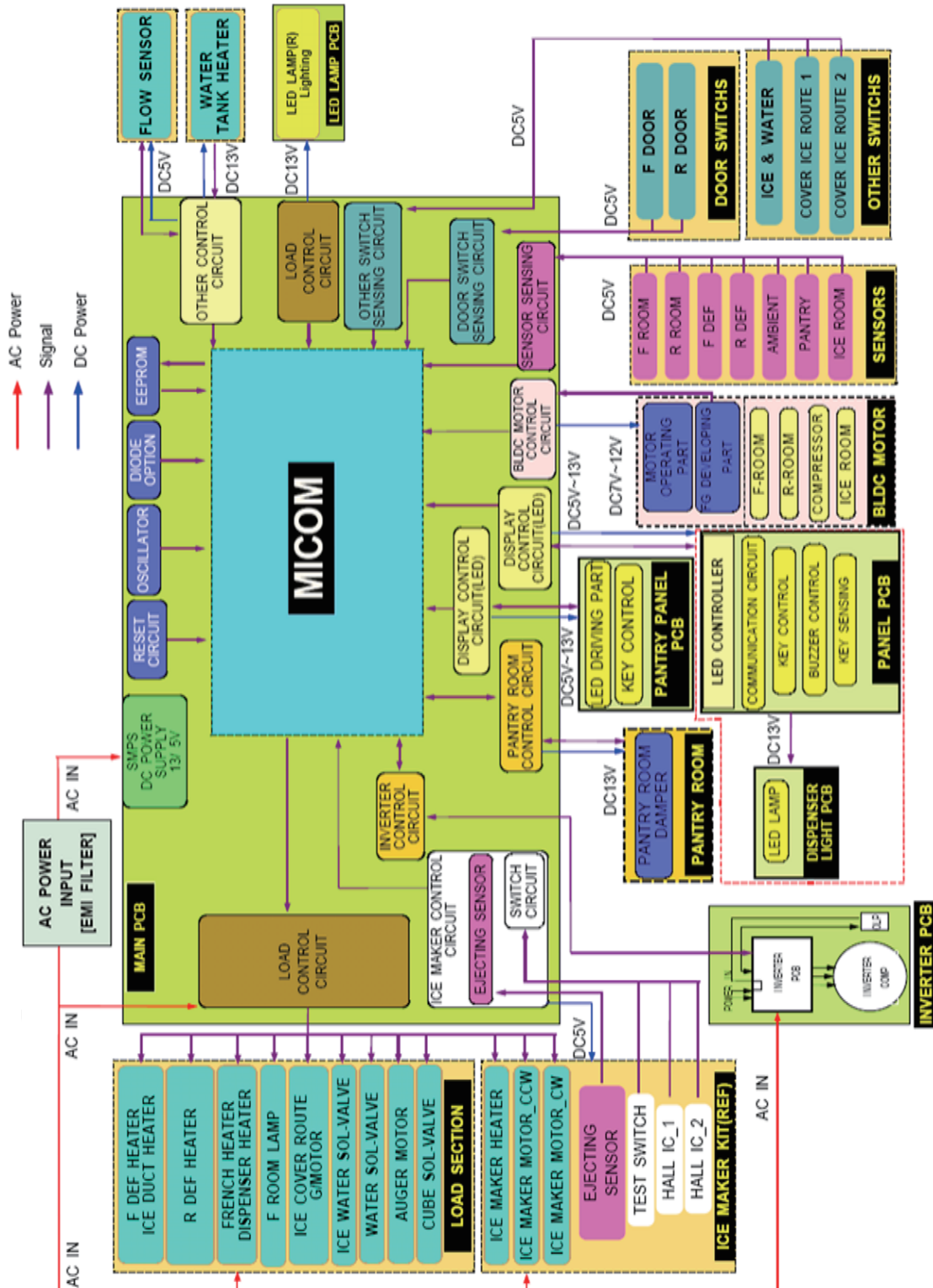
7-2) Model : RF26XAE



8. SCHEMATIC DIAGRAM

8-1) Whole block diagram

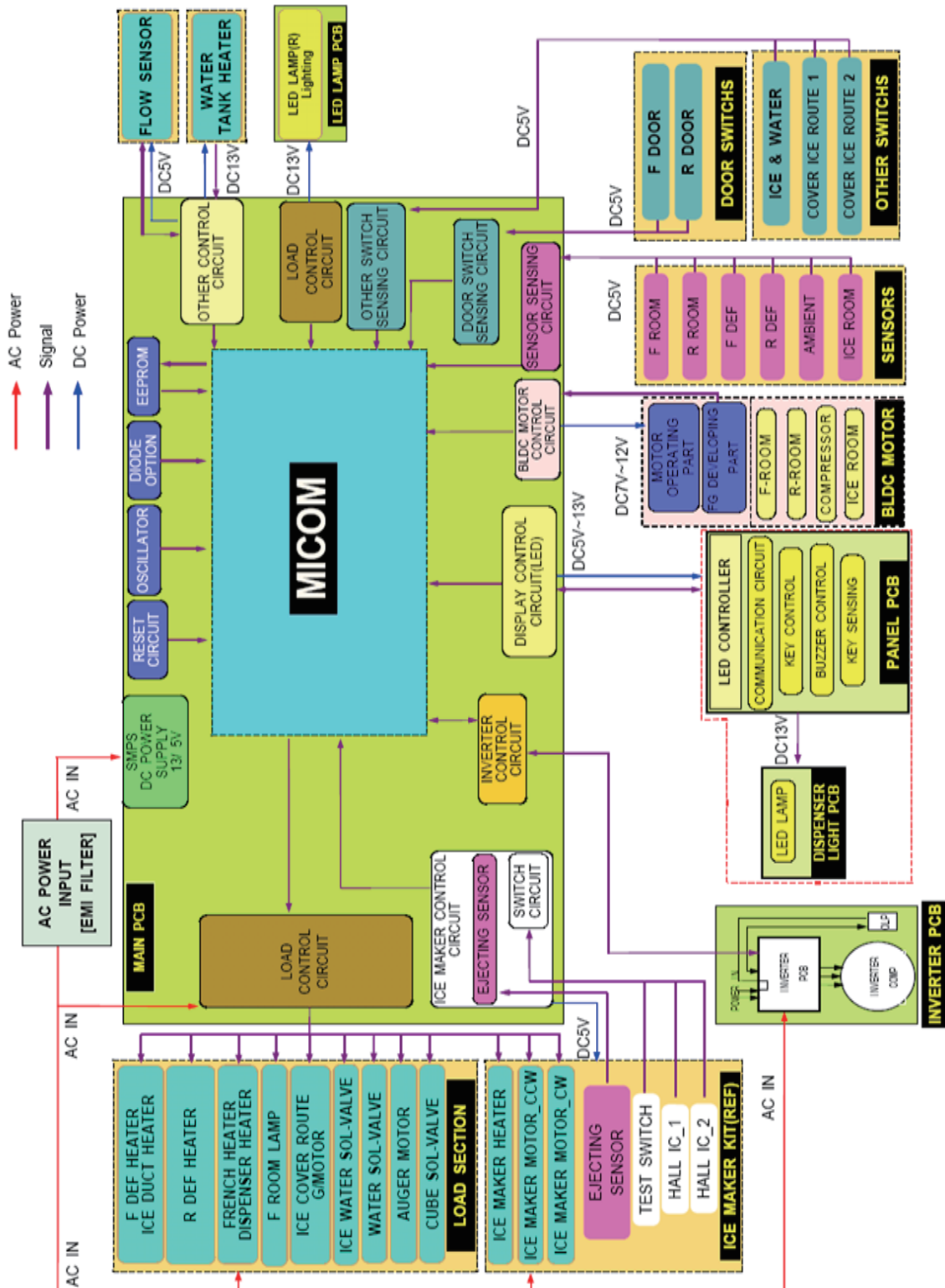
8-1-1. MODEL : RF267AE



SCHEMATIC DIAGRAM

8-1) Whole block diagram

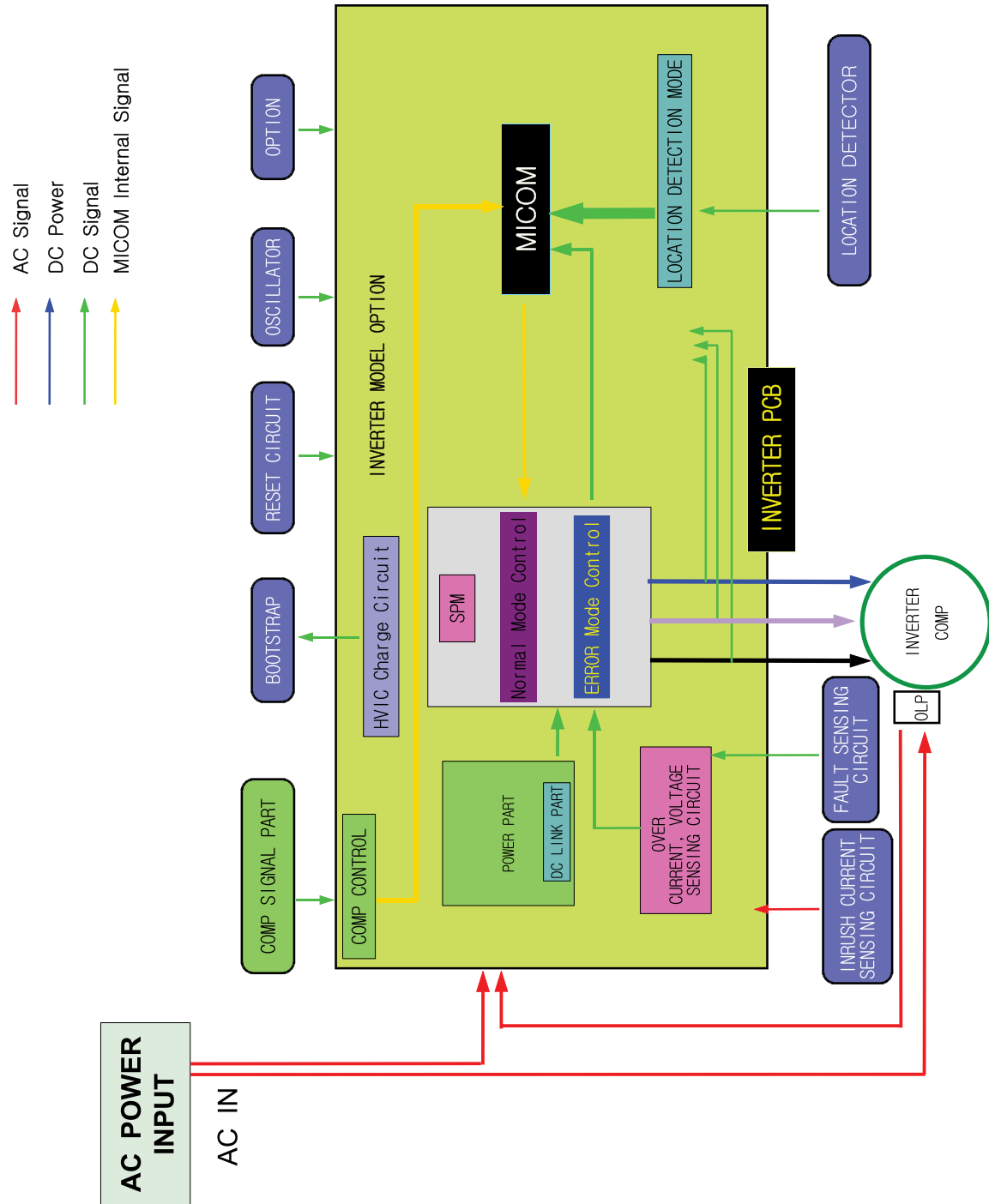
8-1-2. MODEL : RF26XAE



SCHEMATIC DIAGRAM

8-1) Whole block diagram

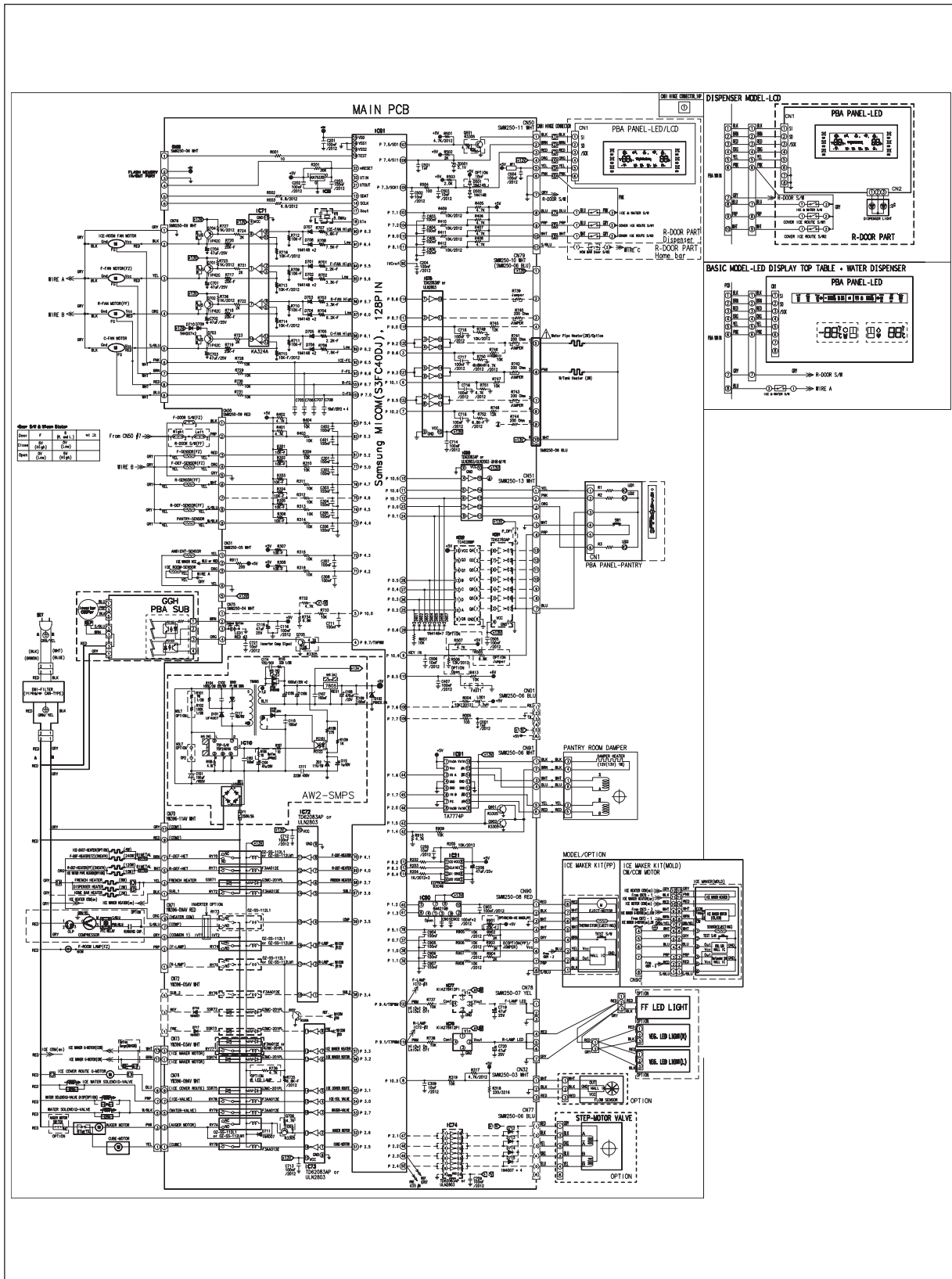
8-1-3. Inverter Board



SCHEMATIC DIAGRAM

8-2) CIRCUIT DIAGRAM

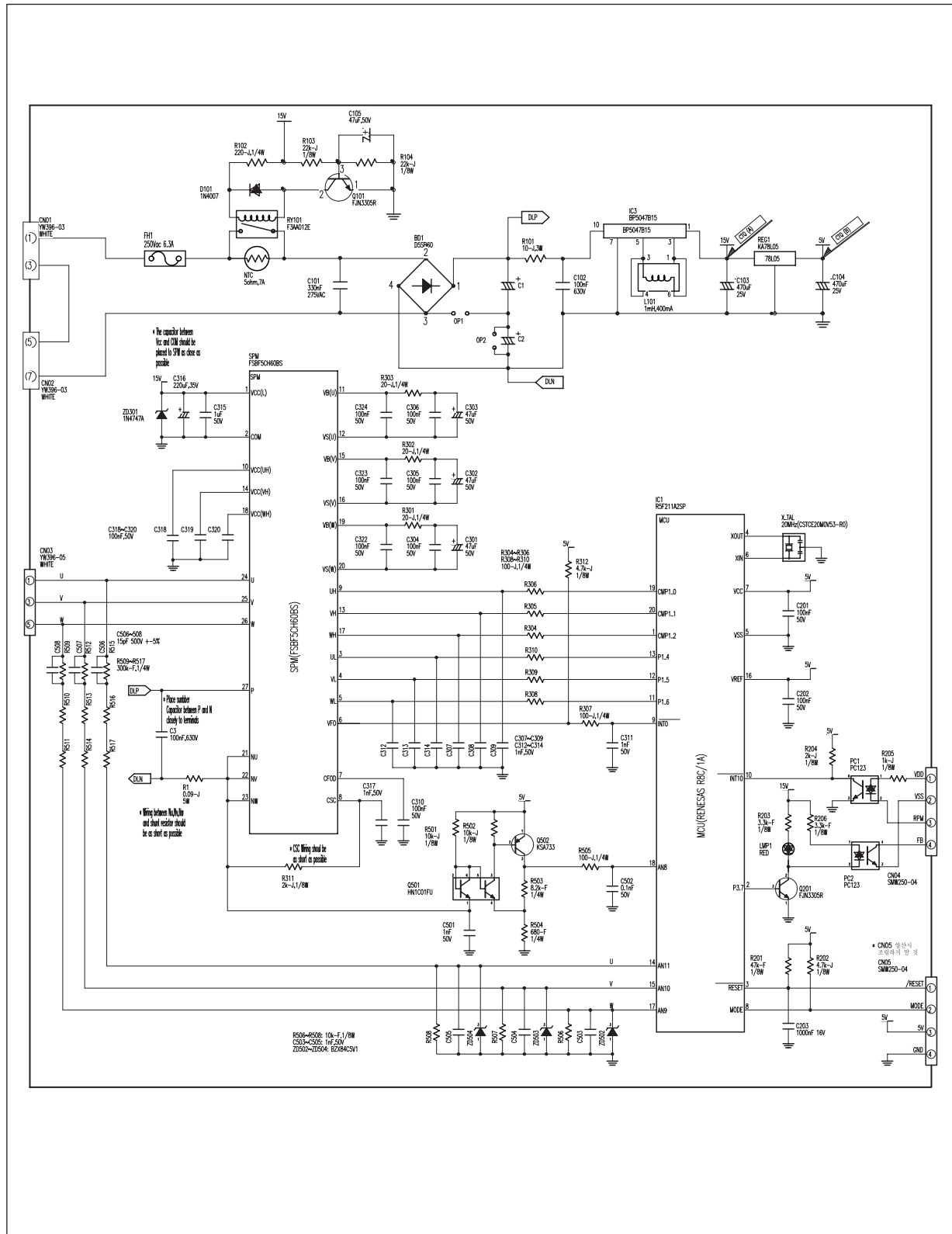
8-2-1. MODEL : RF267AE / RF26XAE



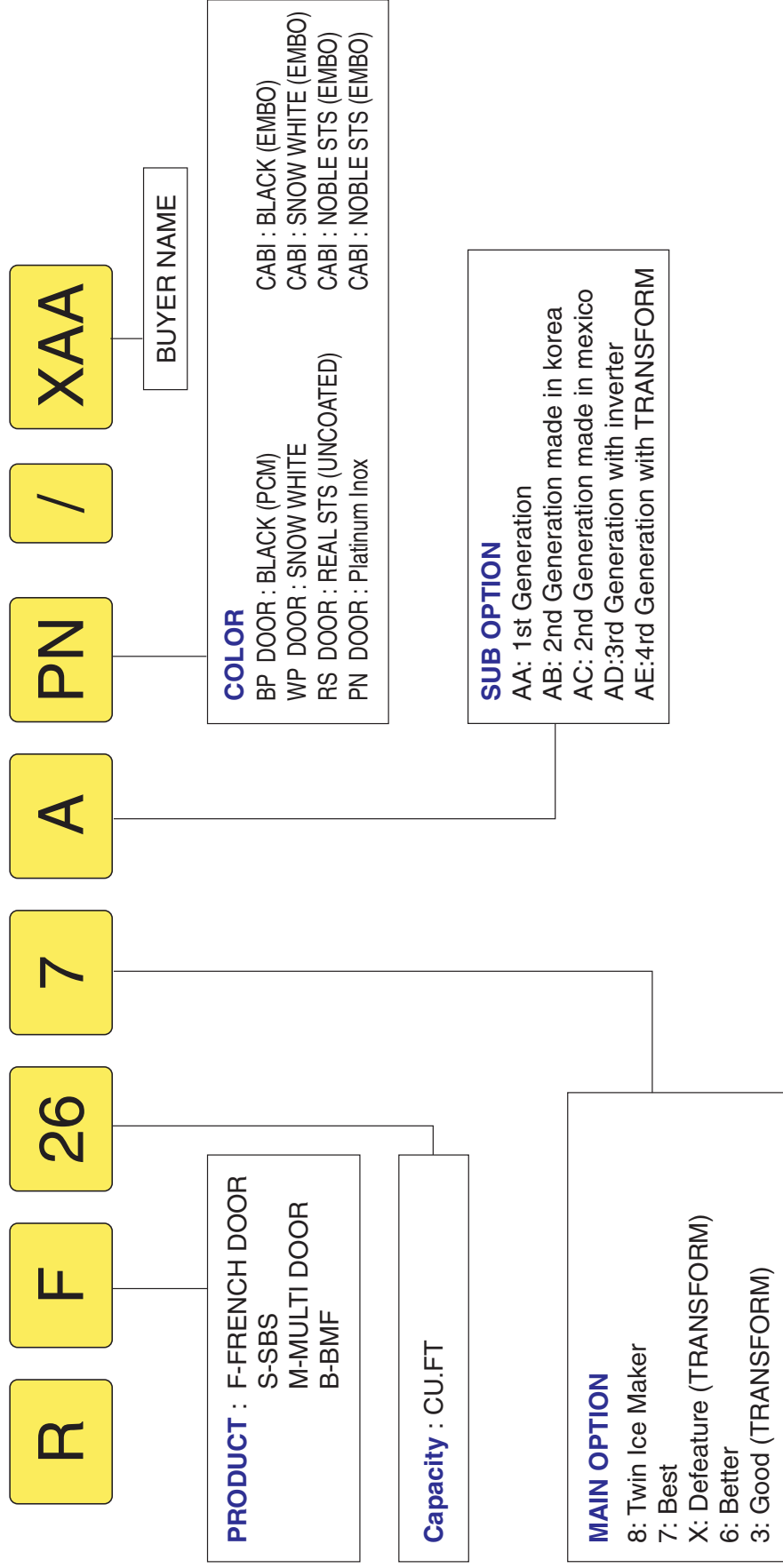
SCHEMATIC DIAGRAM

8-2) CIRCUIT DIAGRAM

8-2-2. INVERTER BOARD



Model code





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